CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PIB004	PIBH005	SUMP1	SUMP2	SUMP3
			Depth (m)	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432919	7432920	7432923	7432924	7432925
			AGS Reference					
Suspended solids, Total	<2 mg/l	TM022		1440 #	1490 #	223 #	190 #	242 #
BOD, unfiltered	<1 mg/l	TM045		5.98 #	2.05 #	<2.5 #	<2.5 #	69.6 #
Ammoniacal Nitrogen as NH4	<0.3 mg/l	TM099		0.437 #	<0.3 #	<0.3 #	<0.3 #	6.33 #
COD, unfiltered	<7 mg/l	TM107		49.8 #	167 #	81.6 #	44.4 #	455 #
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120		0.247 #	0.305 #	0.564 #	0.662 #	5.13 #
Arsenic (diss.filt)	<0.12 µg/l	TM152		4.06 #	4.73 #	1.94 #	1.74 #	2.44 #
Cadmium (diss.filt)	<0.1 µg/l	TM152		<0.1 #	<0.1 #	<0.1 #	<0.1 #	4.86 #
Chromium (diss.filt)	<0.22 µg/l	TM152		1.44 #	2.39 #	3.65 #	7.54 #	28.2 #
Copper (diss.filt)	<0.85 µg/l	TM152		<0.85 #	<0.85 #	2.36 #	1.76 #	24.6 #
Lead (diss.filt)	<0.02 µg/l	TM152		0.17 #	0.223 #	0.138 #	0.336 #	20.7 #
Nickel (diss.filt)	<0.15 µg/l	TM152		0.588 #	5.54 #	3.89 #	2.34 #	2610 #
Selenium (diss.filt)	<0.39 µg/l	TM152		0.875 #	<0.39 #	0.407 #	1.78 #	2.19 #
Zinc (diss.filt)	<0.41 µg/l	TM152		0.987 #	9.15 #	4.88 #	1.95 #	4340 #
Mercury (diss.filt)	<0.01 µg/l	TM183		<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #
Nitrite as NO2	<0.05 mg/l	TM184		<0.05 2 #	<0.05 2 #	<0.05 2 #	<0.05 2 #	<0.05 2 #
Phosphate (ortho) as PO4	<0.05 mg/l	TM184		<0.05 #	<0.05 #	<0.05 #	<0.05 #	
Nitrate as NO3	<0.3 mg/l	TM184		<0.3 #	<0.3 #	<0.3 #	3.17 #	
Nitrate as NO3	<0.04 mg/l	TM226						1.65 #
Phospate (ortho) as PO4	<0.14 mg/l	TM226						117 #
pH	<1 pH Units	TM256		6.77 #	6.74 #	7.91 #	8.05 #	3.82 #
Phenols, Total Detected monohydric	<0.016 mg/l	TM259		<0.016 #	<0.016 #	<0.016 #	<0.016 #	0.04 #

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW067	MSMW0700	MSMW068D	MSMW068DZ	MSMW068S	MSMW070SZ
			Depth (m)	.	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432918	7432922	7432915	7432916	7432917	7432921
			AGS Reference						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2-Chlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2-Methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
2-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
3-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
4-Chloroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
4-Methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
4-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
4-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Azobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Acenaphthylene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Acenaphthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		23.9	<2	<2	<2	3.54	<4
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW067	MSMW0700	MSMW068D	MSMW068DZ	MSMW068S	MSMW070SZ
			Depth (m)	.	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432918	7432922	7432915	7432916	7432917	7432921
			AGS Reference						
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Carbazole (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Chrysene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Dibenzofuran (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Diethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Dimethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<5	<5	<5	<5	<5	<10
Fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Fluorene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Hexachlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Pentachlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Phenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Hexachloroethane (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Nitrobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Naphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Isophorone (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Phenanthrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2
Pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<2

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PIB004	PIBH005	SUMP1	SUMP2	SUMP3
			Depth (m)	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432919	7432920	7432923	7432924	7432925
			AGS Reference					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	27.4
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2-Chlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2-Methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
2-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
3-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
4-Chloroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
4-Methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
4-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
4-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
Azobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
Acenaphthylene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
Acenaphthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
Anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<2	<2	3.64	2.72	<20
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<10

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	PIB004	PIBH005	SUMP1	SUMP2	SUMP3	
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Depth (m)	.	.	.	.	.	
		Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	
		Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	
		Sample Time	.	.	.	.	.	
		Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	
		SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16	
(F)	Trigger breach confirmed	Lab Sample No.(s)	7432919	7432920	7432923	7432924	7432925	
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Carbazole (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Chrysene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Dibenzofuran (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	<5	<5	<5	<50	
Fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Fluorene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Pentachlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Phenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Hexachloroethane (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Nitrobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Naphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Isophorone (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Phenanthrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	
Pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<10	

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

TPH CWG (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW067	MSMW0700	MSMW068D	MSMW068DZ	MSMW068S	MSMW070SZ
			Depth (m)	.	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432918	7432922	7432915	7432916	7432917	7432921
			AGS Reference						
GRO Surrogate % recovery**	%	TM245		105	99	96	94	90	100
GRO >C5-C12	<50 µg/l	TM245		655 #	264 #	<50 #	<50 #	<50 #	4020 #
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245		<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Benzene	<7 µg/l	TM245		83 #	<7 #	<7 #	<7 #	<7 #	72 #
Toluene	<4 µg/l	TM245		<4 #	<4 #	<4 #	<4 #	<4 #	7 #
Ethylbenzene	<5 µg/l	TM245		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
m,p-Xylene	<8 µg/l	TM245		<8 #	<8 #	<8 #	<8 #	<8 #	<8 #
o-Xylene	<3 µg/l	TM245		<3 #	<3 #	<3 #	<3 #	<3 #	5 #
Sum of detected Xylenes	<11 µg/l	TM245		<11	<11	<11	<11	<11	<11
Sum of detected BTEX	<28 µg/l	TM245		83	<28	<28	<28	<28	79
Aliphatics >C5-C6	<10 µg/l	TM245		49	<10	<10	<10	<10	218
Aliphatics >C6-C8	<10 µg/l	TM245		196	40	<10	<10	<10	953
Aliphatics >C8-C10	<10 µg/l	TM245		112	54	<10	<10	<10	429
Aliphatics >C10-C12	<10 µg/l	TM245		83	74	<10	<10	<10	1230
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174		590	<10	<10	<10	<10	184
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174		407	<10	<10	<10	<10	166
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174		52	<10	<10	<10	<10	123
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174		1050	<10	<10	<10	<10	473
Aromatics >EC5-EC7	<10 µg/l	TM245		83	<10	<10	<10	<10	72
Aromatics >EC7-EC8	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/l	TM245		75	36	<10	<10	<10	295
Aromatics >EC10-EC12	<10 µg/l	TM245		55	49	<10	<10	<10	818
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174		84	30	<10	<10	<10	126
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174		111	<10	<10	<10	<10	36
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174		77	<10	<10	<10	<10	<10
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174		272	30	<10	<10	<10	162
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174		1980	294	12	<10	<10	4660

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

TPH CWG (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
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tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PIB004	PIBH005	SUMP1	SUMP2	SUMP3
			Depth (m)	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432919	7432920	7432923	7432924	7432925
			AGS Reference					
GRO Surrogate % recovery**	%	TM245		94	98	99	100	88
GRO >C5-C12	<50 µg/l	TM245		369 #	<50 #	<50 #	<50 #	14000 #
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245		<3 #	<3 #	<3 #	<3 #	<3 #
Benzene	<7 µg/l	TM245		<7 #	<7 #	<7 #	<7 #	494 #
Toluene	<4 µg/l	TM245		<4 #	<4 #	<4 #	<4 #	46 #
Ethylbenzene	<5 µg/l	TM245		<5 #	<5 #	<5 #	<5 #	<5 #
m,p-Xylene	<8 µg/l	TM245		<8 #	<8 #	<8 #	<8 #	104 #
o-Xylene	<3 µg/l	TM245		<3 #	<3 #	<3 #	<3 #	13 #
Sum of detected Xylenes	<11 µg/l	TM245		<11	<11	<11	<11	117
Sum of detected BTEX	<28 µg/l	TM245		<28	<28	<28	<28	657
Aliphatics >C5-C6	<10 µg/l	TM245		15	<10	<10	<10	468
Aliphatics >C6-C8	<10 µg/l	TM245		94	<10	<10	<10	1280
Aliphatics >C8-C10	<10 µg/l	TM245		64	<10	<10	<10	5390
Aliphatics >C10-C12	<10 µg/l	TM245		90	<10	<10	<10	1580
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174		482	225	<10	<10	222
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174		441	188	18	<10	272
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174		506	170	93	<10	306
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174		1430	583	111	<10	800
Aromatics >EC5-EC7	<10 µg/l	TM245		<10	<10	<10	<10	494
Aromatics >EC7-EC8	<10 µg/l	TM245		<10	<10	<10	<10	46
Aromatics >EC8-EC10	<10 µg/l	TM245		45	<10	<10	<10	3710
Aromatics >EC10-EC12	<10 µg/l	TM245		60	<10	<10	<10	1050
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174		51	15	<10	<10	1010
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174		123	60	<10	<10	208
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174		210	101	15	<10	87
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174		384	176	15	<10	1310
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174		2180	794	134	<10	16100

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
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1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW067	MSMW0700	MSMW068D	MSMW068DZ	MSMW068S	MSMW070SZ
			Depth (m)	.	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432918	7432922	7432915	7432916	7432917	7432921
			AGS Reference						
Dibromofluoromethane**	%	TM208		116	116	120	117	116	113
Toluene-d8**	%	TM208		99.6	101	101	99.9	99.8	101
4-Bromofluorobenzene**	%	TM208		100	98.5	99.8	98.6	98.6	100
Dichlorodifluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vinyl chloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Trichlorofluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Carbon disulphide	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dichloromethane	<3 µg/l	TM208		<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
trans-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,2-Dichloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Bromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloroform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Carbontetrachloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloroethane	<1 µg/l	TM208		<1	<1	1.76	<1	<1	<1
Benzene	<1 µg/l	TM208		88.7 #	<1 #	<1 #	<1 #	<1 #	54.3 #
Trichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromodichloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Toluene	<1 µg/l	TM208		1.24 #	<1 #	<1 #	<1 #	<1 #	6.98 #
trans-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,2-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
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**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
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1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW067	MSMW0700	MSMW068D	MSMW068DZ	MSMW068S	MSMW070SZ
			Depth (m)	.	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432918	7432922	7432915	7432916	7432917	7432921
			AGS Reference						
1,3-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Tetrachloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromoethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	1.16 #
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	2.93 #
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	4.25 #
Styrene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromoform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Isopropylbenzene	<1 µg/l	TM208		3.14 #	<1 #	<1 #	<1 #	<1 #	39.6 #
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Propylbenzene	<1 µg/l	TM208		1.58 #	<1 #	<1 #	<1 #	<1 #	38 #
2-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
sec-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	7.68 #
4-iso-Propyltoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
n-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorobutadiene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend	
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Component	LOD/Units	Method	Customer Sample R	MSMW067	MSMW0700	MSMW068D	MSMW068DZ	MSMW068S	MSMW070SZ
			Depth (m)	.	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432918	7432922	7432915	7432916	7432917	7432921
			AGS Reference						
1,2,3-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3,5-Trichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

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Results Legend

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Component	LOD/Units	Method	Customer Sample R	PIB004	PIBH005	SUMP1	SUMP2	SUMP3
			Depth (m)	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432919	7432920	7432923	7432924	7432925
			AGS Reference					
Dibromofluoromethane**	%	TM208		113	118	118	119	112
Toluene-d8**	%	TM208		101	100	101	101	99.7
4-Bromofluorobenzene**	%	TM208		99	99.9	98.1	96	98.6
Dichlorodifluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Chloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Vinyl chloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Bromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Chloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Trichlorofluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Carbon disulphide	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Dichloromethane	<3 µg/l	TM208		<3 #	<3 #	<3 #	<3 #	<3 #
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
trans-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
2,2-Dichloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<1
Bromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Chloroform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Carbontetrachloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloroethane	<1 µg/l	TM208		<1	<1	<1	<1	<1
Benzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	585 #
Trichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Dibromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Bromodichloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Toluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	56.6 #
trans-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,1,2-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PIB004	PIBH005	SUMP1	SUMP2	SUMP3
			Depth (m)	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432919	7432920	7432923	7432924	7432925
			AGS Reference					
1,3-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Tetrachloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Dibromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromoethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Chlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	10.1 #
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	102 #
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	19.9 #
Styrene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Bromoform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Isopropylbenzene	<1 µg/l	TM208		3.18 #	<1 #	<1 #	<1 #	2.4 #
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1	<1	<1
1,2,3-Trichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Bromobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Propylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	2.92 #
2-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	112 #
4-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
tert-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	41.9 #
sec-Butylbenzene	<1 µg/l	TM208		1.58 #	<1 #	<1 #	<1 #	<1 #
4-iso-Propyltoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
n-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorobutadiene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	1.5 #

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PIB004	PIBH005	SUMP1	SUMP2	SUMP3
			Depth (m)	.	.	.	.	.
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-16	130518-16	130518-16	130518-16	130518-16
			Lab Sample No.(s)	7432919	7432920	7432923	7432924	7432925
			AGS Reference					
1,2,3-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #
1,3,5-Trichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit		
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM226	In-House Method	Determination of Anions in Waters using Ion Chromatography		
TM245	By GC-FID	Determination of GRO by Headspace in waters		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7432918	7432922	7432915	7432916	7432917	7432921	7432919	7432920	7432923	7432924
Customer Sample Ref.	MSMW067	MSMW0700	MSMW068D	MSMW068DZ	MSMW068S	MSMW070SZ	PIB004	PIBH005	SUMP1	SUMP2
AGS Ref.										
Depth										
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Ammoniacal Nitrogen	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	24-May-2013	21-May-2013
Anions by Kone (w)	29-May-2013	23-May-2013	23-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	23-May-2013	24-May-2013	24-May-2013
BOD True Total	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013
COD Unfiltered	19-May-2013	19-May-2013	19-May-2013	19-May-2013	19-May-2013	19-May-2013	19-May-2013	19-May-2013	19-May-2013	19-May-2013
Conductivity (at 20 deg.C)	21-May-2013	21-May-2013	21-May-2013	22-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013
Dissolved Metals by ICP-MS	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013
EPH CWG (Aliphatic) Aqueous GC (W)	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	29-May-2013
EPH CWG (Aromatic) Aqueous GC (W)	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	29-May-2013
GRO by GC-FID (W)	25-May-2013	25-May-2013	25-May-2013	25-May-2013	25-May-2013	25-May-2013	25-May-2013	25-May-2013	25-May-2013	25-May-2013
Mercury Dissolved	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013
Nitrite by Kone (w)	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013
pH Value	24-May-2013	24-May-2013	24-May-2013	24-May-2013	24-May-2013	24-May-2013	24-May-2013	24-May-2013	24-May-2013	24-May-2013
Phenols by HPLC (W)	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	23-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013
Suspended Solids	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013	23-May-2013
SVOC MS (W) - Aqueous	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013
TPH CWG (W)	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	29-May-2013
VOC MS (W)	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013

Lab Sample No(s)	7432925
Customer Sample Ref.	SUMP3
AGS Ref.	
Depth	
Type	LIQUID
Ammoniacal Nitrogen	21-May-2013
Anions by ion Chromatography	29-May-2013
BOD True Total	23-May-2013
COD Unfiltered	19-May-2013
Conductivity (at 20 deg.C)	21-May-2013
Dissolved Metals by ICP-MS	23-May-2013
EPH CWG (Aliphatic) Aqueous GC (W)	29-May-2013
EPH CWG (Aromatic) Aqueous GC (W)	29-May-2013
GRO by GC-FID (W)	25-May-2013
Mercury Dissolved	29-May-2013
Nitrite by Kone (w)	21-May-2013
pH Value	24-May-2013
Phenols by HPLC (W)	22-May-2013
Suspended Solids	23-May-2013
SVOC MS (W) - Aqueous	29-May-2013
TPH CWG (W)	29-May-2013
VOC MS (W)	29-May-2013

SDG:	130518-16	**Location:**	Coed Darcy	**Order Number:**	CD0413
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	226536
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Llandarcy
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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	29 May 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130321-92
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	226423

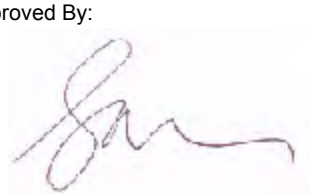
This report has been revised and directly supersedes 221785 in its entirety.

We received 23 samples on Thursday March 21, 2013 and 23 of these samples were scheduled for analysis which was completed on Wednesday May 29, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7112722	CAEMV100		0.00	18/03/2013
7112702	CAEMVO53		0.00	
7112703	CAEMVO98		0.00	18/03/2013
7112704	CAEMVO99		0.00	18/03/2013
7112705	CAV035		0.10	19/03/2013
7112707	CAV035		0.80	19/03/2013
7112706	CAV036		0.30	19/03/2013
7112709	CAV036		1.00	19/03/2013
7112713	CAV037		0.30	19/03/2013
7112714	CAV037		2.50	19/03/2013
7112715	CAV038		0.10	19/03/2013
7112716	CAV038		1.00	19/03/2013
7112717	CAV040		0.20	19/03/2013
7112718	CAV040		0.70	19/03/2013
7112719	CAV041		0.10	19/03/2013
7112721	CAV041		2.00	19/03/2013
7112723	CAV043		0.20	19/03/2013
7112727	CAV044		1.40	19/03/2013
7112728	CAV045		1.50	19/03/2013
7112730	CAV046		0.20	19/03/2013
7112731	CAV046		1.25	19/03/2013
7112733	CAV047		0.20	19/03/2013
7112734	CAV047		1.50	19/03/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			7112722			7112702	7112703			7112704			7112705			7112707			7112706			7112709			7112713			7112714			7112715			7112716			7112717			7112718		
Customer Sample Reference			CAEMV100			CAEMVO53	CAEMVO98			CAEMVO99			CAV035			CAV035			CAV036			CAV036			CAV037			CAV037			CAV038			CAV038			CAV040			CAV040		
AGS Reference																																										
Depth (m)			0.00			0.00	0.00			0.00			0.10			0.80			0.30			1.00			0.30			2.50			0.10			1.00			0.20			0.70		
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos Identification	All	NDPs: 0 Tests: 22		X				X			X			X			X			X			X			X			X			X			X			X			X	
Asbestos Quantification - Full	All	NDPs: 0 Tests: 5																		X						X												X				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 22	X				X			X			X			X			X			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 22	X				X			X			X			X			X			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 22			X				X			X			X			X			X			X			X			X			X			X			X			X
Metals by iCap-OES	All	NDPs: 0 Tests: 22	X				X			X			X			X			X			X			X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 21	X				X			X			X			X			X			X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 22		X				X			X			X			X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 22	X				X			X			X			X			X			X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 12 Tests: 11	X			N	X			X			N			N			N			N			N			N			N			X			N			N		
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 11											X			X			X			X			X			X			X						X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 22	X				X			X			X			X			X			X			X			X			X			X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 22			X				X			X			X			X			X			X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7112719	CAV041		0.10	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112721	CAV041		2.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112723	CAV043		0.20	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112727	CAV044		1.40	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112728	CAV045		1.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112730	CAV046		0.20	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112731	CAV046		1.25	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112733	CAV047		0.20	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7112734	CAV047		1.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos Identification	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 5					
							X
							X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
Metals by iCap-OES	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
PAH by GCMS	All	NDPs: 0 Tests: 21					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
pH	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
Sample description	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
Total Organic Carbon	All	NDPs: 12 Tests: 11					
							N
							X
							X
							X
							X
							X
							N
							X
							X
							X
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 11					
							X
							X
TPH CWG GC (S)	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X
VOC MS (S)	All	NDPs: 0 Tests: 22					
							X
							X
							X
							X
							X
							X
							X
							X
							X
							X

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7112722	CAEMV100	0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7112703	CAEMVO98	0.00	Grey	Sandy Clay Loam	0.1 - 2 mm	None	None
7112704	CAEMVO99	0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
7112705	CAV035	0.10	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
7112707	CAV035	0.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
7112706	CAV036	0.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Brick	Oil/Petroleum
7112709	CAV036	1.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
7112713	CAV037	0.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Brick	Oil/Petroleum
7112714	CAV037	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
7112715	CAV038	0.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7112716	CAV038	1.00	Dark Brown	Silt Loam	0.063 - 0.1 mm	Oil/Petroleum	Stones
7112717	CAV040	0.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7112718	CAV040	0.70	Black	Sand	0.1 - 2 mm	Stones	None
7112719	CAV041	0.10	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7112721	CAV041	2.00	Grey	Clay	0.063 - 0.1 mm	None	None
7112723	CAV043	0.20	Light Brown	Clay Loam	0.063 - 0.1 mm	None	None
7112727	CAV044	1.40	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
7112728	CAV045	1.50	Dark Brown	Clay Loam	0.063 - 0.1 mm	None	None
7112730	CAV046	0.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7112731	CAV046	1.25	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Vegetation
7112733	CAV047	0.20	Black	Sand	0.1 - 2 mm	Brick	Stones
7112734	CAV047	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	N/A

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036
			Depth (m)	0.00	0.00	0.00	0.10	0.80	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/03/2013	18/03/2013	18/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112722	7112703	7112704	7112705	7112707	7112706
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		3.02 #	2.5 #	1.41 #			
pH	1 pH Units	TM133		7.04 M	7.01 M	6.98 M	7.27 M	6.85 M	7.67 M
Arsenic	<0.6 mg/kg	TM181		10.5 M	5.52 M	2.33 M	46.1 M	32.4 M	28.7 M
Cadmium	<0.02 mg/kg	TM181		0.444 M	0.193 M	0.0764 M	0.723 M	1.15 M	0.912 M
Chromium	<0.9 mg/kg	TM181		10.6 M	8.25 M	8.24 M	15.8 M	12.3 M	20.1 M
Copper	<1.4 mg/kg	TM181		38.7 M	17.5 M	3.25 M	31 M	72.5 M	83.7 M
Lead	<0.7 mg/kg	TM181		55.2 M	24.8 M	9.26 M	42.1 M	57.6 M	97.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.354 M
Nickel	<0.2 mg/kg	TM181		17.3 M	10.5 M	11.5 M	25.2 M	23.5 M	25.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		11.8 #	9.32 #	8.54 #	19.2 #	16.2 #	18 #
Zinc	<1.9 mg/kg	TM181		223 M	152 M	22.8 M	82.7 M	148 M	217 M
Soil Organic Matter (SOM)	<0.1 %	TM321					1.2	5.37	1.54

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV036	CAV037	CAV037	CAV038	CAV038	CAV040
			Depth (m)	1.00	0.30	2.50	0.10	1.00	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112709	7112713	7112714	7112715	7112716	7112717
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132						1.58 #	
pH	1 pH Units	TM133		7.48 M	7.66 M	7.54 M	8.2 M	7.06 M	7.83 M
Arsenic	<0.6 mg/kg	TM181		18.9 M	15.5 M	12.7 M	14.6 M	6.25 M	19.9 M
Cadmium	<0.02 mg/kg	TM181		0.627 M	0.755 M	0.561 M	0.649 M	0.394 M	0.98 M
Chromium	<0.9 mg/kg	TM181		13.9 M	15.6 M	16 M	11.6 M	13.9 M	17.7 M
Copper	<1.4 mg/kg	TM181		51.5 M	48.4 M	31.2 M	41.2 M	12 M	35.6 M
Lead	<0.7 mg/kg	TM181		51.3 M	55.2 M	52 M	50.9 M	9.61 M	70.2 M
Mercury	<0.14 mg/kg	TM181		0.468 M	<0.14 M	0.149 M	0.201 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		24 M	24.5 M	27.6 M	30.1 M	26.9 M	31.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		18.2 #	14.9 #	15.1 #	13.7 #	11.4 #	18.3 #
Zinc	<1.9 mg/kg	TM181		149 M	214 M	130 M	117 M	61.8 M	179 M
Soil Organic Matter (SOM)	<0.1 %	TM321		3.61	1.39	1.91	1.12		1.55

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV040	CAV041	CAV041	CAV043	CAV044	CAV045
			Depth (m)	0.70	0.10	2.00	0.20	1.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112718	7112719	7112721	7112723	7112727	7112728
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132			1.58 #	0.991 #	1.42 #	60.3 #	
pH	1 pH Units	TM133		7.19 M	8.25 M	6.26 M	10.2 M	7.1 M	6.28 M
Arsenic	<0.6 mg/kg	TM181		19.8 M	18.9 M	12.9 M	7.8 M	3.36 M	38.8 M
Cadmium	<0.02 mg/kg	TM181		1.01 M	0.85 M	0.407 M	0.437 M	0.181 M	2.52 M
Chromium	<0.9 mg/kg	TM181		24.7 M	13.7 M	16.9 M	12.4 M	15.9 M	11 M
Copper	<1.4 mg/kg	TM181		58.2 M	66.5 M	6.45 M	4.31 M	8.45 M	119 M
Lead	<0.7 mg/kg	TM181		176 M	115 M	13.9 M	9.88 M	12.3 M	24.2 M
Mercury	<0.14 mg/kg	TM181		0.357 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		33.8 M	28.4 M	17.3 M	16 M	18.5 M	26 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	2.89 #
Vanadium	<0.2 mg/kg	TM181		58.5 #	16.1 #	21 #	15 #	16.4 #	22.9 #
Zinc	<1.9 mg/kg	TM181		229 M	275 M	34.9 M	28 M	33.4 M	94 M
Soil Organic Matter (SOM)	<0.1 %	TM321		2.33	0.478				

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV046	CAV046	CAV047	CAV047		
			Depth (m)	0.20	1.25	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013		
			Sample Time	.	.	.	.		
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013		
			SDG Ref	130321-92	130321-92	130321-92	130321-92		
			Lab Sample No.(s)	7112730	7112731	7112733	7112734		
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.38 #	12.1 #		1.42 #		
pH	1 pH Units	TM133		8.5 M	6.78 M	8.52 M	10.5 M		
Arsenic	<0.6 mg/kg	TM181		24.1 M	413 M	44 M	3.55 M		
Cadmium	<0.02 mg/kg	TM181		0.77 M	3.15 M	1.53 M	0.141 M		
Chromium	<0.9 mg/kg	TM181		44.4 M	13.4 M	17.1 M	16.9 M		
Copper	<1.4 mg/kg	TM181		69.8 M	319 M	128 M	7.87 M		
Lead	<0.7 mg/kg	TM181		44.1 M	275 M	303 M	12.9 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	1.62 M	<0.14 M		
Nickel	<0.2 mg/kg	TM181		30.6 M	22.1 M	36.8 M	19.4 M		
Selenium	<1 mg/kg	TM181		<1 #	2.27 #	<1 #	<1 #		
Vanadium	<0.2 mg/kg	TM181		39.1 #	18.8 #	26.8 #	15.9 #		
Zinc	<1.9 mg/kg	TM181		121 M	291 M	672 M	43 M		
Soil Organic Matter (SOM)	<0.1 %	TM321				3.24			

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036
			Depth (m)	0.00	0.00	0.00	0.10	0.80	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/03/2013	18/03/2013	18/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112722	7112703	7112704	7112705	7112707	7112706
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		105	103	102	101	105	106
Acenaphthene-d10 % recovery**	%	TM218		105	107	104	104	107	106
Phenanthrene-d10 % recovery**	%	TM218		102	109	102	106	105	106
Chrysene-d12 % recovery**	%	TM218		94.2	104	91.9	101	97.8	105
Perylene-d12 % recovery**	%	TM218		99.3	107	94.6	104	102	111
Naphthalene	<9 µg/kg	TM218		194 M	153 M	54.8 M	14.2 M	43.6 M	416 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		744 M	56 M	54 M	<8 M	23.4 M	94.2 M
Fluorene	<10 µg/kg	TM218		290 M	168 M	196 M	<10 M	39.1 M	274 M
Phenanthrene	<15 µg/kg	TM218		133 M	272 M	428 M	63.3 M	261 M	869 M
Anthracene	<16 µg/kg	TM218		50 M	62.4 M	55 M	<16 M	32.5 M	218 M
Fluoranthene	<17 µg/kg	TM218		97.4 M	220 M	<17 M	43.3 M	135 M	579 M
Pyrene	<15 µg/kg	TM218		81.6 M	233 M	39.7 M	40.9 M	144 M	1080 M
Benz(a)anthracene	<14 µg/kg	TM218		30 M	64.6 M	<14 M	33.2 M	88.4 M	414 M
Chrysene	<10 µg/kg	TM218		32 M	80 M	15.1 M	47.9 M	117 M	505 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		45.7 M	74.3 M	<15 M	53.1 M	133 M	582 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	28.8 M	<14 M	18.4 M	39.3 M	253 M
Benzo(a)pyrene	<15 µg/kg	TM218		21.2 M	44.3 M	<15 M	31.6 M	71.3 M	484 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	24.6 M	<18 M	22.9 M	44.7 M	311 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	130 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	33.7 M	<24 M	<24 M	56.7 M	391 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1720	1510	842	369	1230	6600

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV036	CAV037	CAV037	CAV038	CAV038	CAV040
			Depth (m)	1.00	0.30	2.50	0.10	1.00	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112709	7112713	7112714	7112715	7112716	7112717
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		103	101	102	102	101	101
Acenaphthene-d10 % recovery**	%	TM218		107	103	104	105	102	102
Phenanthrene-d10 % recovery**	%	TM218		105	101	102	102	100	100
Chrysene-d12 % recovery**	%	TM218		96	97.3	98.3	97.7	95.3	96.3
Perylene-d12 % recovery**	%	TM218		105	103	102	102	98.6	104
Naphthalene	<9 µg/kg	TM218		991 M	136 M	153 M	158 M	60.8 M	46.9 M
Acenaphthylene	<12 µg/kg	TM218		<24 M	<12 M	<12 M	<12 M	20.1 M	<12 M
Acenaphthene	<8 µg/kg	TM218		1490 M	60.5 M	72.7 M	18.2 M	39.2 M	25.7 M
Fluorene	<10 µg/kg	TM218		9970 M	156 M	176 M	59 M	94.8 M	48.6 M
Phenanthrene	<15 µg/kg	TM218		91900 M	625 M	363 M	280 M	333 M	827 M
Anthracene	<16 µg/kg	TM218		5700 M	98.3 M	119 M	45.1 M	39.8 M	133 M
Fluoranthene	<17 µg/kg	TM218		5800 M	241 M	195 M	185 M	81.8 M	344 M
Pyrene	<15 µg/kg	TM218		15000 M	516 M	465 M	373 M	136 M	439 M
Benz(a)anthracene	<14 µg/kg	TM218		5590 M	200 M	145 M	151 M	61 M	831 M
Chrysene	<10 µg/kg	TM218		10800 M	329 M	238 M	201 M	86.3 M	4210 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		2150 M	230 M	192 M	251 M	61.2 M	645 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		395 M	73.5 M	56.3 M	66.6 M	17 M	178 M
Benzo(a)pyrene	<15 µg/kg	TM218		1610 M	157 M	107 M	160 M	33 M	422 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		411 M	86.3 M	66.5 M	96.1 M	<18 M	197 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		499 M	40.5 M	32.7 M	41.2 M	<23 M	198 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		626 M	121 M	91.3 M	127 M	<24 M	265 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		153000	3070	2470	2210	1060	8810

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV040	CAV041	CAV041	CAV043	CAV044	CAV046
			Depth (m)	0.70	0.10	2.00	0.20	1.40	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112718	7112719	7112721	7112723	7112727	7112730
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		93.3	101	103	101	105	107
Acenaphthene-d10 % recovery**	%	TM218		94.2	104	106	104	105	108
Phenanthrene-d10 % recovery**	%	TM218		87	106	108	106	103	108
Chrysene-d12 % recovery**	%	TM218		77	104	103	99.4	94.2	103
Perylene-d12 % recovery**	%	TM218		73.7	106	107	102	98.1	114
Naphthalene	<9 µg/kg	TM218		4390 M	42 M	<9 M	13.6 M	<9 M	143 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	377 M
Acenaphthene	<8 µg/kg	TM218		1800 M	33.5 M	<8 M	<8 M	<8 M	82.7 M
Fluorene	<10 µg/kg	TM218		5640 M	38.3 M	<10 M	<10 M	<10 M	185 M
Phenanthrene	<15 µg/kg	TM218		16700 M	510 M	<15 M	19.9 M	<15 M	1160 M
Anthracene	<16 µg/kg	TM218		1950 M	89.7 M	<16 M	<16 M	<16 M	539 M
Fluoranthene	<17 µg/kg	TM218		2390 M	536 M	<17 M	<17 M	<17 M	3610 M
Pyrene	<15 µg/kg	TM218		6640 M	575 M	<15 M	<15 M	<15 M	2720 M
Benz(a)anthracene	<14 µg/kg	TM218		2220 M	570 M	<14 M	<14 M	<14 M	2430 M
Chrysene	<10 µg/kg	TM218		5140 M	1520 M	<10 M	<10 M	<10 M	1890 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1260 M	677 M	<15 M	<15 M	<15 M	3240 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		302 M	220 M	<14 M	<14 M	<14 M	1230 M
Benzo(a)pyrene	<15 µg/kg	TM218		890 M	541 M	<15 M	<15 M	<15 M	2650 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		360 M	303 M	<18 M	<18 M	<18 M	1550 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		376 M	188 M	<23 M	<23 M	<23 M	562 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		489 M	388 M	<24 M	<24 M	<24 M	1860 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		50500	6230	<118	<118	<118	24200

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV046	CAV047	CAV047			
			Depth (m)	1.25	0.20	1.50			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	19/03/2013	19/03/2013	19/03/2013			
			Sample Time	.	.	.			
			Date Received	21/03/2013	21/03/2013	21/03/2013			
			SDG Ref	130321-92	130321-92	130321-92			
			Lab Sample No.(s)	7112731	7112733	7112734			
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		93.4	95.8	105			
Acenaphthene-d10 % recovery**	%	TM218		94.2	92.5	106			
Phenanthrene-d10 % recovery**	%	TM218		90.2	83.9	105			
Chrysene-d12 % recovery**	%	TM218		75.9	74.8	95			
Perylene-d12 % recovery**	%	TM218		76.2	74.7	97.1			
Naphthalene	<9 µg/kg	TM218		6720 M	118 M	193 M			
Acenaphthylene	<12 µg/kg	TM218		231 M	29.6 M	<12 M			
Acenaphthene	<8 µg/kg	TM218		467 M	40.7 M	<8 M			
Fluorene	<10 µg/kg	TM218		1850 M	36.4 M	<10 M			
Phenanthrene	<15 µg/kg	TM218		1640 M	473 M	<15 M			
Anthracene	<16 µg/kg	TM218		399 M	85.9 M	<16 M			
Fluoranthene	<17 µg/kg	TM218		939 M	998 M	<17 M			
Pyrene	<15 µg/kg	TM218		792 M	810 M	<15 M			
Benz(a)anthracene	<14 µg/kg	TM218		414 M	564 M	<14 M			
Chrysene	<10 µg/kg	TM218		520 M	655 M	<10 M			
Benzo(b)fluoranthene	<15 µg/kg	TM218		603 M	1100 M	<15 M			
Benzo(k)fluoranthene	<14 µg/kg	TM218		299 M	399 M	<14 M			
Benzo(a)pyrene	<15 µg/kg	TM218		555 M	639 M	<15 M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		329 M	449 M	<18 M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<115 M	162 M	<23 M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218		441 M	540 M	<24 M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		16200	7100	193			

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036
			Depth (m)	0.00	0.00	0.00	0.10	0.80	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/03/2013	18/03/2013	18/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112722	7112703	7112704	7112705	7112707	7112706
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		164	106	105	84	61	71
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		2750 M	20300 M	62200 M	63.3 M	1680 M	33500 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	198 M	<5 M	<5 M	<5 M
Benzene	<10 µg/kg	TM089		<10 M	<10 M	25 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<2 M	<2 M	3.51 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	25	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		49.6	48	41.7	<10	10.5	171
Aliphatics >C6-C8	<10 µg/kg	TM089		464	1580	8680	<10	31.6	3000
Aliphatics >C8-C10	<10 µg/kg	TM089		702	5280	15400	11.5	106	6720
Aliphatics >C10-C12	<10 µg/kg	TM089		632	5930	16500	16.1	867	11500
Aliphatics >C12-C16	<100 µg/kg	TM173		4770	35500	63900	2990	32200	186000
Aliphatics >C16-C21	<100 µg/kg	TM173		16500	73600	122000	5140	51900	160000
Aliphatics >C21-C35	<100 µg/kg	TM173		185000	65600	19300	19000	103000	629000
Aliphatics >C35-C44	<100 µg/kg	TM173		58600	15700	7930	8500	36300	185000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		265000	191000	213000	35600	223000	1160000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	25	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		469	3520	10300	<10	77.2	4480
Aromatics >EC10-EC12	<10 µg/kg	TM089		422	3950	11000	11.5	578	7660
Aromatics >EC12-EC16	<100 µg/kg	TM173		7260	28000	32000	2180	11100	113000
Aromatics >EC16-EC21	<100 µg/kg	TM173		16800	31500	48200	3040	25700	94400
Aromatics >EC21-EC35	<100 µg/kg	TM173		143000	55600	28100	15300	73100	342000
Aromatics >EC35-EC44	<100 µg/kg	TM173		69600	17700	17600	10300	28000	132000
Aromatics >EC40-EC44	<100 µg/kg	TM173		25300	5380	7020	4830	10600	48300
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		237000	133000	126000	30800	138000	680000
Total Aliphatics >C5-35	<100 µg/kg	TM173		208000	188000	246000	27200	188000	997000
Total Aromatics >C5-35	<100 µg/kg	TM173		168000	123000	130000	20600	110000	561000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		377000	310000	375000	47800	298000	1560000

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend		Customer Sample R	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.00	0.00	0.00	0.10	0.80	0.30
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	18/03/2013	18/03/2013	18/03/2013	19/03/2013	19/03/2013	19/03/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
		SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
(F)	Trigger breach confirmed	Lab Sample No.(s)	7112722	7112703	7112704	7112705	7112707	7112706
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	505000	344000	401000	66500	363000	1870000

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV036	CAV037	CAV037	CAV038	CAV038	CAV040
			Depth (m)	1.00	0.30	2.50	0.10	1.00	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112709	7112713	7112714	7112715	7112716	7112717
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		48	52	74	34	103	82
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		129000 M	41700 M	51500 M	3150 M	19400 M	2950 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<10 M	<5 M	<5 M	<5 M	6.6 M	<5 M
Benzene	<10 µg/kg	TM089		<20 M	<10 M	13.7 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<4 M	<2 M	<2 M	2.22 M	<2 M	4.72 M
Ethylbenzene	<3 µg/kg	TM089		<6 M	<3 M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<12 M	<6 M	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<6 M	<3 M	<3 M	3.33 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		39.8	16.1	28.5	12.2	11	47.2
Aliphatics >C6-C8	<10 µg/kg	TM089		9430	912	3440	46.6	578	232
Aliphatics >C8-C10	<10 µg/kg	TM089		41200	9770	13500	163	3660	481
Aliphatics >C10-C12	<10 µg/kg	TM089		30300	14700	15300	1680	7600	1110
Aliphatics >C12-C16	<100 µg/kg	TM173		767000	207000	137000	21400	45100	37800
Aliphatics >C16-C21	<100 µg/kg	TM173		940000	189000	132000	45400	44900	33400
Aliphatics >C21-C35	<100 µg/kg	TM173		1710000	480000	402000	152000	182000	70000
Aliphatics >C35-C44	<100 µg/kg	TM173		503000	139000	126000	48200	61300	21300
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3920000	1020000	798000	267000	333000	163000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<20	<10	13.7	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<20	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		27400	6520	8970	118	2440	327
Aromatics >EC10-EC12	<10 µg/kg	TM089		20200	9800	10200	1120	5070	742
Aromatics >EC12-EC16	<100 µg/kg	TM173		695000	84600	43500	9990	21500	7960
Aromatics >EC16-EC21	<100 µg/kg	TM173		1290000	126000	79700	26000	28000	13800
Aromatics >EC21-EC35	<100 µg/kg	TM173		2030000	365000	281000	150000	119000	72500
Aromatics >EC35-EC44	<100 µg/kg	TM173		622000	130000	116000	75100	52100	38100
Aromatics >EC40-EC44	<100 µg/kg	TM173		236000	48800	46000	29100	19500	15600
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		4640000	706000	521000	261000	220000	132000
Total Aliphatics >C5-35	<100 µg/kg	TM173		3490000	901000	704000	221000	284000	143000
Total Aromatics >C5-35	<100 µg/kg	TM173		4060000	592000	424000	187000	176000	95300
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		7560000	1490000	1130000	408000	459000	238000

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend		Customer Sample R	CAV036	CAV037	CAV037	CAV038	CAV038	CAV040
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.00	0.30	2.50	0.10	1.00	0.20
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
		SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
(F)	Trigger breach confirmed	Lab Sample No.(s)	7112709	7112713	7112714	7112715	7112716	7112717
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	8680000	1760000	1370000	531000	573000	298000

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV040	CAV041	CAV041	CAV043	CAV044	CAV045
			Depth (m)	0.70	0.10	2.00	0.20	1.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112718	7112719	7112721	7112723	7112727	7112728
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		99	64	121	139	124	44
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		905000 M	287 M	2550 M	2160 M	3600 M	75200 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<100 M	<5 M	<5 M	<5 M	<5 M	<10 M
Benzene	<10 µg/kg	TM089		470 M	<10 M	<10 M	23 M	<10 M	<20 M
Toluene	<2 µg/kg	TM089		<40 M	<2 M	<2 M	73 M	<2 M	<4 M
Ethylbenzene	<3 µg/kg	TM089		<60 M	<3 M	<3 M	15.4 M	<3 M	<6 M
m,p-Xylene	<6 µg/kg	TM089		<120 M	<6 M	<6 M	85.8 M	<6 M	<12 M
o-Xylene	<3 µg/kg	TM089		<60 M	<3 M	<3 M	110 M	<3 M	<6 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	196	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		470	<24	<24	307	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		7490	11.3	17.5	37.1	35.1	529
Aliphatics >C6-C8	<10 µg/kg	TM089		92800	32.8	306	268	904	5650
Aliphatics >C8-C10	<10 µg/kg	TM089		180000	41.8	638	461	764	14100
Aliphatics >C10-C12	<10 µg/kg	TM089		303000	101	696	467	830	27300
Aliphatics >C12-C16	<100 µg/kg	TM173		2000000	11400	<100	7320	2090	85900
Aliphatics >C16-C21	<100 µg/kg	TM173		1690000	11300	<100	2440	1180	113000
Aliphatics >C21-C35	<100 µg/kg	TM173		1340000	49400	<100	4360	4010	357000
Aliphatics >C35-C44	<100 µg/kg	TM173		434000	19600	<100	<100	2180	68000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		5460000	91700	<100	14100	9470	624000
Aromatics >EC5-EC7	<10 µg/kg	TM089		470	<10	<10	23	<10	<20
Aromatics >EC7-EC8	<10 µg/kg	TM089		<200	<10	<10	73	<10	<20
Aromatics >EC8-EC10	<10 µg/kg	TM089		120000	31.6	425	518	509	9420
Aromatics >EC10-EC12	<10 µg/kg	TM089		202000	66.7	464	311	553	18200
Aromatics >EC12-EC16	<100 µg/kg	TM173		598000	4220	<100	<100	2320	21900
Aromatics >EC16-EC21	<100 µg/kg	TM173		767000	8480	<100	2510	4000	47500
Aromatics >EC21-EC35	<100 µg/kg	TM173		754000	63900	<100	<100	16200	1220000
Aromatics >EC35-EC44	<100 µg/kg	TM173		317000	36300	<100	<100	9600	230000
Aromatics >EC40-EC44	<100 µg/kg	TM173		123000	13900	<100	<100	4420	66200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		2440000	113000	<100	2510	32100	1520000
Total Aliphatics >C5-35	<100 µg/kg	TM173		5610000	72300	1660	15400	9820	604000
Total Aromatics >C5-35	<100 µg/kg	TM173		2440000	76700	891	3440	23600	1310000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		8050000	149000	2550	18800	33400	1920000

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend		Customer Sample R	CAV040	CAV041	CAV041	CAV043	CAV044	CAV045
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.70	0.10	2.00	0.20	1.40	1.50
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
		SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
(F)	Trigger breach confirmed	Lab Sample No.(s)	7112718	7112719	7112721	7112723	7112727	7112728
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	8810000	205000	2550	18800	45200	2220000

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV046	CAV046	CAV047	CAV047		
			Depth (m)	0.20	1.25	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013		
			Sample Time	.	.	.	.		
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013		
			SDG Ref	130321-92	130321-92	130321-92	130321-92		
			Lab Sample No.(s)	7112730	7112731	7112733	7112734		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		74	121	57	131		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1930 M	2320000 M	781 M	11700 M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<100 M	<5 M	<5 M		
Benzene	<10 µg/kg	TM089		<10 M	464 M	<10 M	<10 M		
Toluene	<2 µg/kg	TM089		5.7 M	<40 M	3.69 M	<2 M		
Ethylbenzene	<3 µg/kg	TM089		<3 M	<60 M	<3 M	<3 M		
m,p-Xylene	<6 µg/kg	TM089		<6 M	<120 M	<6 M	<6 M		
o-Xylene	<3 µg/kg	TM089		6.84 M	<60 M	16 M	<3 M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	16	<9		
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	464	<24	<24		
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	6120	13.5	28.1		
Aliphatics >C6-C8	<10 µg/kg	TM089		30.8	446000	66.4	495		
Aliphatics >C8-C10	<10 µg/kg	TM089		236	639000	185	2500		
Aliphatics >C10-C12	<10 µg/kg	TM089		889	482000	218	4180		
Aliphatics >C12-C16	<100 µg/kg	TM173		145000	944000	5960	4090		
Aliphatics >C16-C21	<100 µg/kg	TM173		12200	342000	17000	2860		
Aliphatics >C21-C35	<100 µg/kg	TM173		57500	100000	94900	6220		
Aliphatics >C35-C44	<100 µg/kg	TM173		27400	8430	22500	<100		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		242000	1390000	140000	13200		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	464	<10	<10		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<200	<10	<10		
Aromatics >EC8-EC10	<10 µg/kg	TM089		169	426000	148	1670		
Aromatics >EC10-EC12	<10 µg/kg	TM089		593	322000	145	2790		
Aromatics >EC12-EC16	<100 µg/kg	TM173		29400	413000	13000	5310		
Aromatics >EC16-EC21	<100 µg/kg	TM173		113000	137000	66600	4810		
Aromatics >EC21-EC35	<100 µg/kg	TM173		365000	215000	192000	17300		
Aromatics >EC35-EC44	<100 µg/kg	TM173		169000	56900	77700	6860		
Aromatics >EC40-EC44	<100 µg/kg	TM173		66200	17000	29300	2650		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		677000	823000	349000	34300		
Total Aliphatics >C5-35	<100 µg/kg	TM173		215000	2960000	118000	20400		
Total Aromatics >C5-35	<100 µg/kg	TM173		508000	1510000	271000	31900		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		724000	4470000	390000	52300		

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

TPH CWG (S)

Results Legend		Customer Sample R	CAV046	CAV046	CAV047	CAV047		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.20	1.25	0.20	1.50		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013		
		SDG Ref	130321-92	130321-92	130321-92	130321-92		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7112730	7112731	7112733	7112734		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	920000	4540000	490000	59100		

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036
			Depth (m)	0.00	0.00	0.00	0.10	0.80	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/03/2013	18/03/2013	18/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112722	7112703	7112704	7112705	7112707	7112706
			AGS Reference						
Dibromofluoromethane**	%	TM116		99	96	102	103	102	102
Toluene-d8**	%	TM116		99.3	97.6	99.3	99.6	99.6	101
4-Bromofluorobenzene**	%	TM116		101	123	114	102	109	104
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 M	<4 M	<8 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<14	<7	<14	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<20	<10	<20	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<26 M	<13 M	<26 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<28 M	<14 M	<28 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<12 M	<6 M	<12 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<20 #	<10 #	<20 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<14 M	12.6 M	<14 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<20 #	<10 #	<20 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 M	<11 M	<22 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 M	<11 M	<22 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<16 M	<8 M	<16 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 M	<5 M	<10 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<12 M	<24 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<28 M	<14 M	<28 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<16 M	<8 M	<16 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 M	<7 M	<14 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<22 M	<11 M	<22 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<28 M	<14 M	<28 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<10 M	<5 M	<10 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<18 M	11.3 M	<18 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<18 M	<9 M	<18 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<12 M	<24 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<18 M	<9 M	<18 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<14 M	<7 M	<14 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 M	<14 M	<28 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<10 M	<5 M	<10 M	<100 M	<100 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<28	<14	<28	<280	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 M	<10 M	<20 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036
			Depth (m)	0.00	0.00	0.00	0.10	0.80	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/03/2013	18/03/2013	18/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112722	7112703	7112704	7112705	7112707	7112706
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<14 #	<7 #	<14 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<10 M	<5 M	<10 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<26 M	<13 M	<26 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<24 M	<12 M	<24 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<10 M	<5 M	<10 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 M	<10 M	<20 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<8 M	6.2 M	<8 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<28 #	20.9 #	<28 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<20 M	<10 M	<20 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<20 M	<10 M	<20 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<20 M	<10 M	<20 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<10 M	41.6 M	174 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 #	<10 #	<20 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 M	<17 M	<34 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<20 M	<10 M	<20 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<22 M	69 M	218 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<18 M	<9 M	<18 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<16 #	<8 #	<16 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<24 M	<12 M	<24 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<24 #	<12 #	<24 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<18 #	14.3 #	<18 #	<180 #	<180 #	374 #
sec-Butylbenzene	<10 µg/kg	TM116		<20 M	58.8 M	247 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<22 M	<11 M	<22 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 M	<6 M	<12 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 M	<5 M	<10 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<20 M	<10 M	183 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 M	<12 M	<24 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 M	<14 M	<28 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<30	<15	<30	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 #	<6 #	<12 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<24	<12	<24	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<26 M	<13 M	<26 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend		Customer Sample R	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.00	0.00	0.00	0.10	0.80	0.30
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	18/03/2013	18/03/2013	18/03/2013	19/03/2013	19/03/2013	19/03/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
		SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
(F)	Trigger breach confirmed	Lab Sample No.(s)	7112722	7112703	7112704	7112705	7112707	7112706
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<12 M	<6 M	<12 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV036	CAV037	CAV037	CAV038	CAV038	CAV040
			Depth (m)	1.00	0.30	2.50	0.10	1.00	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112709	7112713	7112714	7112715	7112716	7112717
			AGS Reference						
Dibromofluoromethane**	%	TM116		102	98.8	104	102	101	104
Toluene-d8**	%	TM116		96.5	101	100	99.3	96.9	95.9
4-Bromofluorobenzene**	%	TM116		104	103	105	110	131	126
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<4 M	<8 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140	<7	<14
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200	<10	<20
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<13 M	<26 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<28 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<6 M	<12 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<10 #	<20 #
Carbon Disulphide	<7 µg/kg	TM116		358 M	<140 M	<140 M	<140 M	<7 M	<14 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<10 #	<20 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<11 M	<22 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<11 M	<22 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<8 M	<16 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<10 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<24 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<28 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<8 M	<16 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<7 M	<14 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<11 M	<22 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<28 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<10 M
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<18 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<18 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<24 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<18 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<7 M	<14 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<28 M
Toluene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	15 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<280	<14	<28
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<20 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV036	CAV037	CAV037	CAV038	CAV038	CAV040
			Depth (m)	1.00	0.30	2.50	0.10	1.00	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112709	7112713	7112714	7112715	7112716	7112717
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #	<7 #	<14 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<10 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<13 M	<26 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<24 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<10 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<20 M
Ethylbenzene	<4 µg/kg	TM116		397 M	<80 M	<80 M	<80 M	<4 M	<8 M
p/m-Xylene	<14 µg/kg	TM116		924 #	<280 #	<280 #	<280 #	<14 #	<28 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<20 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<20 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<20 M
Isopropylbenzene	<5 µg/kg	TM116		1620 M	<100 M	<100 M	<100 M	<5 M	<10 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<10 #	<20 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<340 M	<17 M	<34 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<20 M
Propylbenzene	<11 µg/kg	TM116		2960 M	<220 M	<220 M	<220 M	<11 M	<22 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<18 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		931 #	<160 #	<160 #	<160 #	<8 #	<16 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<24 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #	<12 #	<24 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		26900 #	<180 #	<180 #	<180 #	<9 #	<18 #
sec-Butylbenzene	<10 µg/kg	TM116		3590 M	<200 M	<200 M	<200 M	75.9 M	<20 M
4-Isopropyltoluene	<11 µg/kg	TM116		1760 M	<220 M	<220 M	<220 M	<11 M	<22 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<6 M	<12 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<10 M
n-Butylbenzene	<10 µg/kg	TM116		4450 M	<200 M	<200 M	<200 M	<10 M	<20 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<24 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<28 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300	<15	<30
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #	<6 #	<12 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240	<12	<24
Naphthalene	<13 µg/kg	TM116		6980 M	<260 M	<260 M	<260 M	<13 M	<26 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend		Customer Sample R	CAV036	CAV037	CAV037	CAV038	CAV038	CAV040
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.00	0.30	2.50	0.10	1.00	0.20
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
		SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
(F)	Trigger breach confirmed	Lab Sample No.(s)	7112709	7112713	7112714	7112715	7112716	7112717
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<120 M	<120 M	<120 M	<6 M	<12 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV040	CAV041	CAV041	CAV043	CAV044	CAV045
			Depth (m)	0.70	0.10	2.00	0.20	1.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112718	7112719	7112721	7112723	7112727	7112728
			AGS Reference						
Dibromofluoromethane**	%	TM116		103	103	111	111	105	100
Toluene-d8**	%	TM116		97.9	100	101	100	103	96.9
4-Bromofluorobenzene**	%	TM116		122	106	109	112	108	116
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<4 M	<4 M	<4 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<7	<7	<7	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<10	<10	<10	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<13 M	<13 M	<13 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<14 M	<14 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<6 M	<6 M	<6 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<10 #	<10 #	<10 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		293 M	<140 M	10.8 M	9.23 M	9.34 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<10 #	<10 #	<10 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<11 M	<11 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<11 M	<11 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<8 M	<8 M	<8 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<5 M	<5 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<12 M	<12 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<14 M	<14 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<8 M	<8 M	<8 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<7 M	<7 M	<7 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<11 M	<11 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<14 M	<14 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<5 M	<5 M	<100 M
Benzene	<9 µg/kg	TM116		306 M	<180 M	<9 M	50.2 M	<9 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<9 M	<9 M	<9 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<12 M	<12 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<9 M	<9 M	<9 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<7 M	<7 M	<7 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<14 M	<14 M	<280 M
Toluene	<5 µg/kg	TM116		469 M	<100 M	<5 M	125 M	<5 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<14	<14	<14	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<10 M	<10 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV040	CAV041	CAV041	CAV043	CAV044	CAV045
			Depth (m)	0.70	0.10	2.00	0.20	1.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112718	7112719	7112721	7112723	7112727	7112728
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<7 #	<7 #	<7 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<5 M	<5 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<13 M	<13 M	<13 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<12 M	<12 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<5 M	<5 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<10 M	<10 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		263 M	<80 M	7.29 M	20.4 M	13.2 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		795 #	<280 #	<14 #	98 #	<14 #	<280 #
o-Xylene	<10 µg/kg	TM116		594 M	<200 M	<10 M	104 M	<10 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<10 M	<10 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<10 M	<10 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		685 M	<100 M	<5 M	12.1 M	47.5 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<10 #	<10 #	<10 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<17 M	<17 M	<17 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<10 M	<10 M	<200 M
Propylbenzene	<11 µg/kg	TM116		1120 M	<220 M	<11 M	<11 M	17 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<9 M	<9 M	<9 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		247 #	<160 #	<8 #	59.8 #	<8 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<12 M	<12 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<12 #	<12 #	<12 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		4980 #	<180 #	<9 #	138 #	<9 #	983 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	19.2 M	<10 M	<10 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<11 M	<11 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<6 M	<6 M	<6 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<5 M	<5 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<10 M	<10 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<12 M	<12 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<14 M	<14 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<15	<15	<15	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<6 #	<6 #	<6 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<12	<12	<12	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<13 M	<13 M	<13 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV040	CAV041	CAV041	CAV043	CAV044	CAV045
			Depth (m)	0.70	0.10	2.00	0.20	1.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013	19/03/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013	21/03/2013
			SDG Ref	130321-92	130321-92	130321-92	130321-92	130321-92	130321-92
			Lab Sample No.(s)	7112718	7112719	7112721	7112723	7112727	7112728
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<6 M	<6 M	<6 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV046	CAV046	CAV047	CAV047		
			Depth (m)	0.20	1.25	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013		
			Sample Time	.	.	.	.		
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013		
			SDG Ref	130321-92	130321-92	130321-92	130321-92		
			Lab Sample No.(s)	7112730	7112731	7112733	7112734		
			AGS Reference						
Dibromofluoromethane**	%	TM116		99.6	102	103	95.3		
Toluene-d8**	%	TM116		99.1	99.3	99.9	100		
4-Bromofluorobenzene**	%	TM116		124	116	109	113		
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 M	<80 M	<80 M	<4 M		
Chloromethane	<7 µg/kg	TM116		<14	<140	<140	<7		
Vinyl Chloride	<10 µg/kg	TM116		<20	<200	<200	<10		
Bromomethane	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<13 M		
Chloroethane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<14 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<6 M		
1,1-Dichloroethene	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<10 #		
Carbon Disulphide	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<7 M		
Dichloromethane	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<10 #		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<11 M		
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<11 M		
1,1-Dichloroethane	<8 µg/kg	TM116		<16 M	<160 M	<160 M	<8 M		
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<5 M		
2,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<12 M		
Bromochloromethane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<14 M		
Chloroform	<8 µg/kg	TM116		<16 M	<160 M	<160 M	<8 M		
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<7 M		
1,1-Dichloropropene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<11 M		
Carbontetrachloride	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<14 M		
1,2-Dichloroethane	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<5 M		
Benzene	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<9 M		
Trichloroethene	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<9 M		
1,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<12 M		
Dibromomethane	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<9 M		
Bromodichloromethane	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<7 M		
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<14 M		
Toluene	<5 µg/kg	TM116		49.8 M	<100 M	<100 M	<5 M		
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<28	<280	<280	<14		
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<10 M		

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV046	CAV046	CAV047	CAV047		
			Depth (m)	0.20	1.25	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013		
			Sample Time	.	.	.	.		
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013		
			SDG Ref	130321-92	130321-92	130321-92	130321-92		
			Lab Sample No.(s)	7112730	7112731	7112733	7112734		
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<14 #	<140 #	<140 #	<7 #		
Tetrachloroethene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<5 M		
Dibromochloromethane	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<13 M		
1,2-Dibromoethane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<12 M		
Chlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<5 M		
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<10 M		
Ethylbenzene	<4 µg/kg	TM116		<8 M	<80 M	<80 M	<4 M		
p/m-Xylene	<14 µg/kg	TM116		<28 #	6780 #	<280 #	26.9 #		
o-Xylene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	16.4 M		
Styrene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<10 M		
Bromoform	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<10 M		
Isopropylbenzene	<5 µg/kg	TM116		<10 M	6030 M	<100 M	35.6 M		
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<10 #		
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 M	<340 M	<340 M	<17 M		
Bromobenzene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<10 M		
Propylbenzene	<11 µg/kg	TM116		<22 M	8950 M	<220 M	19 M		
2-Chlorotoluene	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<9 M		
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<16 #	5520 #	<160 #	268 #		
4-Chlorotoluene	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<12 M		
tert-Butylbenzene	<12 µg/kg	TM116		<24 #	<240 #	<240 #	<12 #		
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<18 #	24100 #	<180 #	508 #		
sec-Butylbenzene	<10 µg/kg	TM116		<20 M	5270 M	<200 M	50.5 M		
4-Isopropyltoluene	<11 µg/kg	TM116		<22 M	1550 M	<220 M	<11 M		
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<6 M		
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<5 M		
n-Butylbenzene	<10 µg/kg	TM116		<20 M	2200 M	<200 M	<10 M		
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<12 M		
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<14 M		
Tert-amyl methyl ether	<15 µg/kg	TM116		<30	<300	<300	<15		
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 #	<120 #	<120 #	<6 #		
Hexachlorobutadiene	<12 µg/kg	TM116		<24	<240	<240	<12		
Naphthalene	<13 µg/kg	TM116		292 M	3950 M	<260 M	39.3 M		

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV046	CAV046	CAV047	CAV047		
			Depth (m)	0.20	1.25	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	19/03/2013	19/03/2013	19/03/2013	19/03/2013		
			Sample Time	.	.	.	.		
			Date Received	21/03/2013	21/03/2013	21/03/2013	21/03/2013		
			SDG Ref	130321-92	130321-92	130321-92	130321-92		
			Lab Sample No.(s)	7112730	7112731	7112733	7112734		
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<6 M		

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAEMV100 0.00 SOLID 18/03/2013 00:00:00 130321-92 7112722 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAEMVO98 0.00 SOLID 18/03/2013 00:00:00 130321-92 7112703 TM048	08/04/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAEMVO99 0.00 SOLID 18/03/2013 00:00:00 130321-92 7112704 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV035 0.10 SOLID 19/03/2013 00:00:00 130321-92 7112705 TM048	09/04/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV035 0.80 SOLID 19/03/2013 00:00:00 130321-92 7112707 TM048	08/04/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV036 0.30 SOLID 19/03/2013 00:00:00 130321-92 7112706 TM048	08/04/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV036 1.00 SOLID 19/03/2013 00:00:00 130321-92 7112709 TM048	08/04/13	Kevin Bowron	Soil containing loose fibres and ACM debris	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV037 0.30 SOLID 19/03/2013 00:00:00 130321-92 7112713 TM048	09/04/13	Lauren Sargeant	Soil containing loose fibres and ACM debris	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV037 2.50 SOLID 19/03/2013 00:00:00 130321-92 7112714 TM048	08/04/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV038 0.10 SOLID 19/03/2013 00:00:00 130321-92 7112715 TM048	08/04/13	Simon Postlewhite	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV038 1.00 SOLID 19/03/2013 00:00:00 130321-92 7112716 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV040 0.20 SOLID 19/03/2013 00:00:00 130321-92 7112717 TM048	08/04/13	Kevin Bowron	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV040 0.70 SOLID 19/03/2013 00:00:00 130321-92 7112718 TM048	08/04/13	Kevin Bowron	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV041 0.10 SOLID 19/03/2013 00:00:00 130321-92 7112719 TM048	08/04/13	Kevin Bowron	Soil containing loose fibres and ACM debris	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV041 2.00 SOLID 19/03/2013 00:00:00 130321-92 7112721 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV043 0.20 SOLID 19/03/2013 00:00:00 130321-92 7112723 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV044 1.40 SOLID 19/03/2013 00:00:00 130321-92 7112727 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV045 1.50 SOLID 19/03/2013 00:00:00 130321-92 7112728 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV046 0.20 SOLID 19/03/2013 00:00:00 130321-92 7112730 TM048	08/04/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV046 1.25 SOLID 19/03/2013 00:00:00 130321-92 7112731 TM048	08/04/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV047 0.20 SOLID 19/03/2013 00:00:00 130321-92 7112733 TM048	08/04/13	Kevin Bowron	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV047 1.50 SOLID 19/03/2013 00:00:00 130321-92 7112734 TM048	08/04/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV036 0.30 SOLID 19/03/2013 00:00:00 130321-92 7112706 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV037 0.30 SOLID 19/03/2013 00:00:00 130321-92 7112713 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV040 0.20 SOLID 19/03/2013 00:00:00 130321-92 7112717 TM 304	Crocidolite (#)	N/C	0.0933 (#)	0.0016 (#)	0.0949 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV041 0.10 SOLID 19/03/2013 00:00:00 130321-92 7112719 TM 304	None (#)	N/C	0.0019 (#)	<0.001 (#)	0.0023 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV047 0.20 SOLID 19/03/2013 00:00:00 130321-92 7112733 TM 304	Chrysotile (#)	N/C	0.0213 (#)	0.0013 (#)	0.0226 (#)

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Notification of NDPs (No determination possible)

Date Received : 21/03/2013 15:14:34

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
7112702	CAEMVO53	0.00	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112705	CAV035	0.10	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112706	CAV036	0.30	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112707	CAV035	0.80	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112709	CAV036	1.00	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112713	CAV037	0.30	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112714	CAV037	2.50	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112715	CAV038	0.10	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112717	CAV040	0.20	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112718	CAV040	0.70	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112719	CAV041	0.10	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7112733	CAV047	0.20	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Test Completion Dates

Lab Sample No(s)	7112722	7112703	7112704	7112705	7112707	7112706	7112709	7112713	7112714	7112715
Customer Sample Ref.	CAEMV100	CAEMVO98	CAEMVO99	CAV035	CAV035	CAV036	CAV036	CAV037	CAV037	CAV038
AGS Ref.										
Depth	0.00	0.00	0.00	0.10	0.80	0.30	1.00	0.30	2.50	0.10
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013
Asbestos Quantification - Full						29-May-2013		24-Apr-2013		
EPH CWG (Aliphatic) GC (S)	27-Mar-2013	27-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	27-Mar-2013
EPH CWG (Aromatic) GC (S)	27-Mar-2013	27-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	27-Mar-2013
GRO by GC-FID (S)	27-Mar-2013	26-Mar-2013	26-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	26-Mar-2013	27-Mar-2013
Metals in solid samples by OES	27-Mar-2013	26-Mar-2013	27-Mar-2013	26-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013
PAH by GCMS	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013
pH	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013
Sample description	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013
Total Organic Carbon	09-Apr-2013	09-Apr-2013	09-Apr-2013							
Total Organic Carbon (Asb)				09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013
TPH CWG GC (S)	27-Mar-2013	27-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	28-Mar-2013	27-Mar-2013
VOC MS (S)	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013

Lab Sample No(s)	7112716	7112717	7112718	7112719	7112721	7112723	7112727	7112728	7112730	7112731
Customer Sample Ref.	CAV038	CAV040	CAV040	CAV041	CAV041	CAV043	CAV044	CAV045	CAV046	CAV046
AGS Ref.										
Depth	1.00	0.20	0.70	0.10	2.00	0.20	1.40	1.50	0.20	1.25
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013
Asbestos Quantification - Full		24-Apr-2013		24-Apr-2013						
EPH CWG (Aliphatic) GC (S)	28-Mar-2013	28-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013
EPH CWG (Aromatic) GC (S)	28-Mar-2013	28-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013
GRO by GC-FID (S)	26-Mar-2013	26-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013
Metals in solid samples by OES	27-Mar-2013	27-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	27-Mar-2013	26-Mar-2013	27-Mar-2013	27-Mar-2013
PAH by GCMS	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013		26-Mar-2013	28-Mar-2013
pH	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013
Sample description	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013	23-Mar-2013
Total Organic Carbon	09-Apr-2013				09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013	09-Apr-2013
Total Organic Carbon (Asb)		09-Apr-2013	09-Apr-2013	09-Apr-2013						
TPH CWG GC (S)	28-Mar-2013	28-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013
VOC MS (S)	26-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013	26-Mar-2013	26-Mar-2013	26-Mar-2013	27-Mar-2013	27-Mar-2013	27-Mar-2013

Lab Sample No(s)	7112733	7112734
Customer Sample Ref.	CAV047	CAV047
AGS Ref.		
Depth	0.20	1.50
Type	SOLID	SOLID
Asbestos ID in Solid Samples	09-Apr-2013	09-Apr-2013
Asbestos Quantification - Full	28-May-2013	
EPH CWG (Aliphatic) GC (S)	27-Mar-2013	27-Mar-2013
EPH CWG (Aromatic) GC (S)	27-Mar-2013	27-Mar-2013
GRO by GC-FID (S)	27-Mar-2013	27-Mar-2013
Metals in solid samples by OES	27-Mar-2013	27-Mar-2013
PAH by GCMS	27-Mar-2013	27-Mar-2013
pH	26-Mar-2013	26-Mar-2013
Sample description	23-Mar-2013	23-Mar-2013
Total Organic Carbon		09-Apr-2013
Total Organic Carbon (Asb)	09-Apr-2013	
TPH CWG GC (S)	27-Mar-2013	27-Mar-2013
VOC MS (S)	27-Mar-2013	26-Mar-2013

SDG:	130321-92	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0374
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	226423
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	221785

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	10 June 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130524-36
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	228098

We received 14 samples on Friday May 24, 2013 and 14 of these samples were scheduled for analysis which was completed on Monday June 10, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7468434	CAAH 1			22/05/2013
7468451	CAAH2			22/05/2013
7468435	CAAH 3			22/05/2013
7468437	CAAH 4			22/05/2013
7468438	CAAH 5			22/05/2013
7468439	CAAH 6			22/05/2013
7468440	CAAH 7			22/05/2013
7468450	CAAH8			22/05/2013
7468441	CAAH 9			22/05/2013
7468443	CAAH 10			22/05/2013
7468444	CAAH 11			22/05/2013
7468445	CAAH 12			22/05/2013
7468447	CAAH 13			22/05/2013
7468448	CAAH 14			22/05/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			746843 4	CAAH 1			400g Tub (ALE214)
			746845 1	CAAH2			400g Tub (ALE214)
			746843 5	CAAH 3			400g Tub (ALE214)
			746843 7	CAAH 4			400g Tub (ALE214)
			746843 8	CAAH 5			400g Tub (ALE214)
			746843 9	CAAH 6			400g Tub (ALE214)
			746844 0	CAAH 7			400g Tub (ALE214)
			746845 0	CAAH8			400g Tub (ALE214)
			746844 1	CAAH 9			400g Tub (ALE214)
			746844 3	CAAH 10			400g Tub (ALE214)
			746844 4	CAAH 11			400g Tub (ALE214)
			746844 5	CAAH 12			400g Tub (ALE214)
			746844 7	CAAH 13			400g Tub (ALE214)
			746844 8	CAAH 14			400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 7	X		X		X		X		X		X		X	

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 1 SOLID 22/05/2013 00:00:00 130524-36 7468434 TM048	06/06/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH2 SOLID 22/05/2013 00:00:00 130524-36 7468451 TM048	06/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 3 SOLID 22/05/2013 00:00:00 130524-36 7468435 TM048	07/06/13	Martin Cotterell	Soil containing loose fibres and debris typical of Asbestos Lagging	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 4 SOLID 22/05/2013 00:00:00 130524-36 7468437 TM048	06/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Trace (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 5 SOLID 22/05/2013 00:00:00 130524-36 7468438 TM048	06/06/13	Paul Poynton	Soil containing loose fibres and debris typical of Asbestos Lagging	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 6 SOLID 22/05/2013 00:00:00 130524-36 7468439 TM048	06/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 7 SOLID 22/05/2013 00:00:00 130524-36 7468440 TM048	07/06/13	Martin Cotterell	Soil containing loose fibres and ACM debris	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH8 SOLID 22/05/2013 00:00:00 130524-36 7468450 TM048	07/06/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 9 SOLID 22/05/2013 00:00:00 130524-36 7468441 TM048	07/06/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 10 SOLID 22/05/2013 00:00:00 130524-36 7468443 TM048	07/06/13	Lauren Sargeant	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 11 SOLID 22/05/2013 00:00:00 130524-36 7468444 TM048	07/06/13	Martin Cotterell	Soil containing loose fibres and debris typical of Asbestos Lagging	Detected (#)	Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 12 SOLID 22/05/2013 00:00:00 130524-36 7468445 TM048	07/06/13	Lauren Sargeant	Soil containing loose fibres and ACM debris	Detected (#)	Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 13 SOLID 22/05/2013 00:00:00 130524-36 7468447 TM048	07/06/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 14 SOLID 22/05/2013 00:00:00 130524-36 7468448 TM048	07/06/13	Lauren Sargeant	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 1 SOLID 22/05/2013 00:00:00 130524-36 7468434 TM 304	None (#)	N/C	0.0047 (#)	<0.001 (#)	0.0054 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 3 SOLID 22/05/2013 00:00:00 130524-36 7468435 TM 304	None (#)	N/C	0.0035 (#)	0.0013 (#)	0.0048 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 5 SOLID 22/05/2013 00:00:00 130524-36 7468438 TM 304	None (#)	N/C	0.1858 (#)	0.0010 (#)	0.1868 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 7 SOLID 22/05/2013 00:00:00 130524-36 7468440 TM 304	None (#)	N/C	0.0033 (#)	<0.001 (#)	0.0039 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 9 SOLID 22/05/2013 00:00:00 130524-36 7468441 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 11 SOLID 22/05/2013 00:00:00 130524-36 7468444 TM 304	None (#)	N/C	0.0284 (#)	<0.001 (#)	0.029 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAAH 13 SOLID 22/05/2013 00:00:00 130524-36 7468447 TM 304	None (#)	N/C	0.0058 (#)	<0.001 (#)	0.0064 (#)

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7468451	7468450	7468434	7468435	7468437	7468438	7468439	7468440	7468441	7468443
Customer Sample Ref.	CAAH2	CAAH8	CAAH 1	CAAH 3	CAAH 4	CAAH 5	CAAH 6	CAAH 7	CAAH 9	CAAH 10
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013
Asbestos Quantification - Full			07-Jun-2013	07-Jun-2013		07-Jun-2013		07-Jun-2013	10-Jun-2013	

Lab Sample No(s)	7468444	7468445	7468447	7468448
Customer Sample Ref.	CAAH 11	CAAH 12	CAAH 13	CAAH 14
AGS Ref.				
Depth				
Type	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	07-Jun-2013	07-Jun-2013	07-Jun-2013	07-Jun-2013
Asbestos Quantification - Full	10-Jun-2013		07-Jun-2013	

SDG:	130524-36	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0421
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228098
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
§	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	13 June 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130518-63
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	228804

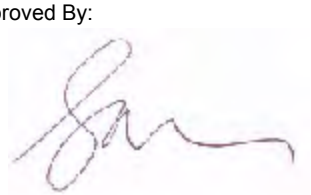
This report has been revised and directly supersedes 227407 in its entirety.

We received 34 samples on Saturday May 18, 2013 and 34 of these samples were scheduled for analysis which was completed on Thursday June 13, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7436479	CHVTP004		0.95	17/05/2013
7436480	CHVTP004		2.00	17/05/2013
7436477	CHVTP006		0.50	17/05/2013
7436478	CHVTP006		2.00	17/05/2013
7436475	CHVTP007		1.20	17/05/2013
7436476	CHVTP007		1.50	17/05/2013
7436473	CHVTP008		1.20	17/05/2013
7436474	CHVTP008		1.80	17/05/2013
7436472	CHVTP009		1.00	16/05/2013
7436470	CHVTP010		0.20	16/05/2013
7436471	CHVTP010		1.20	16/05/2013
7436467	CHVTP011		0.45	16/05/2013
7436469	CHVTP011		1.10	16/05/2013
7436465	CHVTP012		0.45	16/05/2013
7436466	CHVTP012		1.60	16/05/2013
7436463	CHVTP013		0.20	16/05/2013
7436464	CHVTP013		1.00	16/05/2013
7436461	CHVTP014		0.70	16/05/2013
7436462	CHVTP014		1.60	16/05/2013
7436459	CHVTP015		0.30	16/05/2013
7436460	CHVTP015		1.60	16/05/2013
7436457	CHVTP016		0.80	16/05/2013
7436458	CHVTP016		1.85	16/05/2013
7436455	CHVTP017		0.40	16/05/2013
7436456	CHVTP017		1.50	16/05/2013
7436453	CHVTP018		0.40	16/05/2013
7436454	CHVTP018		1.10	16/05/2013
7436451	CHVTP019		0.45	16/05/2013
7436452	CHVTP019		1.20	16/05/2013
7436449	CHVTP020		0.45	16/05/2013
7436450	CHVTP020		1.50	16/05/2013
7436447	CHVTP021		0.45	16/05/2013
7436448	CHVTP021		1.00	16/05/2013
7436445	CHVTP022		1.10	16/05/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			7436479			7436480			7436477			7436478			7436475			7436476			7436473			7436474			7436472			7436470			7436471			7436467			7436469			7436465
Customer Sample Reference			CHVTP004			CHVTP004			CHVTP006			CHVTP006			CHVTP007			CHVTP007			CHVTP008			CHVTP008			CHVTP009			CHVTP010			CHVTP010			CHVTP011			CHVTP011			CHVTP012
AGS Reference																																											
Depth (m)			0.95			2.00			0.50			2.00			1.20			1.50			1.20			1.80			1.00			0.20			1.20			0.45			1.10			0.45
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 18		X						X						X						X						X			X						X					
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4																																			X					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 33			X			X			X			X			X			X			X			X			X			X			X						X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 34		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 30	X						X			X			X			X			X			X			X			X			X			X			X			X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 15 Tests: 19	N			X			X			X			X			X			X			X			N			N			X			N			X			N
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 15	X																								X			X						X						X
TPH CWG GC (S)	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
VOC MS (S)	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	X

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
7436465	CHVTP012		0.45	400g Tub (ALE214)
7436466	CHVTP012		1.60	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436463	CHVTP013		0.20	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436464	CHVTP013		1.00	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436461	CHVTP014		0.70	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436462	CHVTP014		1.60	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436459	CHVTP015		0.30	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436460	CHVTP015		1.60	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436457	CHVTP016		0.80	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436458	CHVTP016		1.85	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436455	CHVTP017		0.40	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436456	CHVTP017		1.50	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436453	CHVTP018		0.40	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
7436454	CHVTP018		1.10	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)

			7436465	7436466	7436463	7436464	7436461	7436462	7436459	7436460	7436457	7436458	7436455	7436456	7436453	7436454
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 18	X		X		X		X		X		X		X	
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4			X										X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 33		X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 30		X	X	X	X	X	X	X	X	X	X	X	X	X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 15 Tests: 19	X	N	X	X	X	N	N	X	N	N	N	N	N	X
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 15		X				X			X	X	X	X	X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7436451	CHVTP019		0.45	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7436452	CHVTP019		1.20	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7436449	CHVTP020		0.45	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7436450	CHVTP020		1.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7436447	CHVTP021		0.45	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7436448	CHVTP021		1.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7436445	CHVTP022		1.10	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 18					
							X
							X
							X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4					
							X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X		X		X
			X		X		X
			X		X		X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X		X		X
			X		X		X
			X		X		X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 33		X		X	
			X		X		X
			X		X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X		X		X
			X		X		X
			X		X		X
pH	All	NDPs: 0 Tests: 34		X		X	
			X		X		X
			X		X		X
Sample description	All	NDPs: 0 Tests: 30	X		X		X
			X		X		X
			X		X		X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 34	X		X		X
			X		X		X
			X		X		X
Total Organic Carbon	All	NDPs: 15 Tests: 19	N			N	
					X		
					X		X
			N		X		X
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 15	X			X	
			X			X	
			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 34	X		X		X
			X		X		X
			X		X		X
VOC MS (S)	All	NDPs: 0 Tests: 34		X		X	
			X		X		X
			X		X		X

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7436479	CHVTP004	0.95	Dark Brown	Silt Loam	0.063 - 0.1 mm	Crushed Brick	Vegetation
7436480	CHVTP004	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Vegetation
7436477	CHVTP006	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
7436478	CHVTP006	2.00	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
7436475	CHVTP007	1.20	Black	Loamy Sand	0.1 - 2 mm	Crushed Brick	Stones
7436476	CHVTP007	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	None
7436473	CHVTP008	1.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Crushed Brick	Vegetation
7436474	CHVTP008	1.80	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
7436472	CHVTP009	1.00	Dark Brown	Silt Loam	0.063 - 0.1 mm	Crushed Brick	Vegetation
7436470	CHVTP010	0.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Crushed Brick	Stones
7436471	CHVTP010	1.20	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
7436467	CHVTP011	0.45	Dark Brown	Silt Loam	0.063 - 0.1 mm	Crushed Brick	Vegetation
7436469	CHVTP011	1.10	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
7436465	CHVTP012	0.45	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
7436466	CHVTP012	1.60	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
7436463	CHVTP013	0.20	Black	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
7436464	CHVTP013	1.00	Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Glass
7436461	CHVTP014	0.70	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
7436462	CHVTP014	1.60	Light Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Vegetation
7436459	CHVTP015	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7436460	CHVTP015	1.60	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
7436457	CHVTP016	0.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	N/A	Stones
7436458	CHVTP016	1.85	Dark Brown	Sandy Loam	0.1 - 2 mm	Brick	Stones
7436455	CHVTP017	0.40	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
7436456	CHVTP017	1.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Brick	Stones
7436453	CHVTP018	0.40	Dark Brown	Loamy Sand	0.1 - 2 mm	Brick	Stones
7436454	CHVTP018	1.10	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	None
7436451	CHVTP019	0.45	Dark Brown	Loamy Sand	0.1 - 2 mm	Crushed Brick	Stones
7436452	CHVTP019	1.20	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	None
7436449	CHVTP020	0.45	Dark Brown	Sandy Clay	0.1 - 2 mm	Crushed Brick	Stones
7436450	CHVTP020	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
7436447	CHVTP021	0.45	Dark Brown	Loamy Sand	0.1 - 2 mm	N/A	Crushed Brick
7436448	CHVTP021	1.00	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
7436445	CHVTP022	1.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Oil/Petroleum

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
			Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		7.4 #	3.72 #	2.09 #	73.6 #	2.4 #	
pH	1 pH Units	TM133	11 M	7.06 M	8.4 M	6.08 M	6.16 M	5.9 M	
Arsenic	<0.6 mg/kg	TM181	26.1 M	102 M	20 M	18.3 M	56.2 M	14.1 M	
Cadmium	<0.02 mg/kg	TM181	1.19 M	0.212 M	0.963 M	0.306 M	2.05 M	0.356 M	
Chromium	<0.9 mg/kg	TM181	55.6 M	9.99 M	14 M	16.6 M	14.2 M	15.9 M	
Copper	<1.4 mg/kg	TM181	76.8 M	141 M	49.9 M	11.1 M	65.3 M	45 M	
Lead	<0.7 mg/kg	TM181	186 M	77.3 M	132 M	16.4 M	63.5 M	23.5 M	
Mercury	<0.14 mg/kg	TM181	0.684 M	<0.14 M	0.422 M	<0.14 M	<0.14 M	<0.14 M	
Nickel	<0.2 mg/kg	TM181	18.4 M	10.1 M	21.3 M	25.7 M	77.3 M	22.5 M	
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	2.01 #	<1 #	
Zinc	<1.9 mg/kg	TM181	635 M	57.7 M	385 M	61.8 M	708 M	69.6 M	
Soil Organic Matter (SOM)	<0.1 %	TM321	0.957						

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
			Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		5.72 #	1.72 #			1.22 #	
pH	1 pH Units	TM133		8.52 M	6.85 M	7.6 M	8.63 M	6.66 M	8.17 M
Arsenic	<0.6 mg/kg	TM181		12 M	10 M	49.6 M	18.3 M	6.63 M	22.4 M
Cadmium	<0.02 mg/kg	TM181		0.806 M	0.195 M	1.8 M	0.741 M	0.957 M	1.03 M
Chromium	<0.9 mg/kg	TM181		12.8 M	14.1 M	16.2 M	26.2 M	17.7 M	18 M
Copper	<1.4 mg/kg	TM181		31.6 M	31.8 M	123 M	62.8 M	6.18 M	76.2 M
Lead	<0.7 mg/kg	TM181		46.1 M	18.6 M	143 M	92.8 M	10.8 M	157 M
Mercury	<0.14 mg/kg	TM181		0.2 M	<0.14 M	1.59 M	1.79 M	<0.14 M	1.2 M
Nickel	<0.2 mg/kg	TM181		26.2 M	8.46 M	26.1 M	26 M	20.6 M	26.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	1.25 #	<1 #
Zinc	<1.9 mg/kg	TM181		113 M	49.7 M	331 M	214 M	37.8 M	357 M
Soil Organic Matter (SOM)	<0.1 %	TM321				4.07	12.5		3.87

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.17 #		2.03 #		7.05 #	2.07 #
pH	1 pH Units	TM133		5.61 M	10.4 M	7.7 M	8.79 M	7.9 M	11.3 M
Arsenic	<0.6 mg/kg	TM181		16.1 M	19.1 M	9.38 M	8.94 M	27.3 M	13.8 M
Cadmium	<0.02 mg/kg	TM181		0.507 M	1.02 M	1.01 M	1.02 M	0.675 M	0.65 M
Chromium	<0.9 mg/kg	TM181		17.3 M	194 M	14.1 M	11 M	19.9 M	80.2 M
Copper	<1.4 mg/kg	TM181		22.8 M	46.7 M	21.4 M	236 M	73.9 M	39.2 M
Lead	<0.7 mg/kg	TM181		17.8 M	61.8 M	28 M	69.9 M	116 M	33.2 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.322 M	0.143 M	<0.14 M	0.443 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		15.9 M	19.1 M	22.7 M	39.4 M	18.9 M	16.5 M
Selenium	<1 mg/kg	TM181		<1 #	2.31 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		63.3 M	221 M	125 M	126 M	317 M	121 M
Soil Organic Matter (SOM)	<0.1 %	TM321			1.57		3.79		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
			Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		1.91 #		1.69 #			
pH	1 pH Units	TM133		8 M	7.61 M	6.48 M	8.08 M	7.45 M	8.33 M
Arsenic	<0.6 mg/kg	TM181		11.8 M	32.1 M	8.64 M	8.46 M	37.6 M	15.2 M
Cadmium	<0.02 mg/kg	TM181		0.29 M	1.29 M	0.716 M	0.488 M	0.8 M	1.11 M
Chromium	<0.9 mg/kg	TM181		13 M	17.8 M	13.5 M	17.9 M	27.5 M	14.6 M
Copper	<1.4 mg/kg	TM181		24.7 M	85.7 M	19.4 M	16.2 M	72.6 M	48.8 M
Lead	<0.7 mg/kg	TM181		45.5 M	177 M	20.1 M	14.3 M	111 M	82.4 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	1.5 M	<0.14 M	<0.14 M	0.492 M	0.468 M
Nickel	<0.2 mg/kg	TM181		27.5 M	25.4 M	18.4 M	19.9 M	20.7 M	30.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		99.9 M	386 M	72 M	42.4 M	423 M	173 M
Soil Organic Matter (SOM)	<0.1 %	TM321			1.3		0.294	2.64	1.4

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
			Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132				0.974 #		1.12 #	
pH	1 pH Units	TM133		7.21 M	7.52 M	6.74 M	8.26 M	6.53 M	8.42 M
Arsenic	<0.6 mg/kg	TM181		9.11 M	31.2 M	9.08 M	29.4 M	7.62 M	19.3 M
Cadmium	<0.02 mg/kg	TM181		0.901 M	1.42 M	0.83 M	1.77 M	0.78 M	0.927 M
Chromium	<0.9 mg/kg	TM181		15.2 M	18.3 M	18.8 M	20.9 M	19 M	16.6 M
Copper	<1.4 mg/kg	TM181		15.4 M	118 M	33.6 M	90.2 M	9.29 M	57.5 M
Lead	<0.7 mg/kg	TM181		18.4 M	127 M	11.5 M	77.6 M	15.1 M	81.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	2.4 M	<0.14 M	0.801 M	<0.14 M	0.754 M
Nickel	<0.2 mg/kg	TM181		28.5 M	29.9 M	15 M	54 M	22.8 M	21.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		72.3 M	251 M	45.6 M	257 M	41.3 M	294 M
Soil Organic Matter (SOM)	<0.1 %	TM321		0.837	2.27		0.948		2.07

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
			Depth (m)	1.50	0.45	1.00	1.10		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
			Sample Time	.	.	.	.		
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
			SDG Ref	130518-63	130518-63	130518-63	130518-63		
			Lab Sample No.(s)	7436450	7436447	7436448	7436445		
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		1.47 #		0.886 #	4.65 #		
pH	1 pH Units	TM133		7.3 M	7.71 M	6.55 M	7.56 M		
Arsenic	<0.6 mg/kg	TM181		9.48 M	27.3 M	9.38 M	19.1 M		
Cadmium	<0.02 mg/kg	TM181		0.279 M	0.965 M	0.813 M	0.837 M		
Chromium	<0.9 mg/kg	TM181		14 M	18 M	17.2 M	16.1 M		
Copper	<1.4 mg/kg	TM181		16.6 M	65.4 M	8.46 M	60.5 M		
Lead	<0.7 mg/kg	TM181		21 M	164 M	10.9 M	74.7 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.485 M	<0.14 M	<0.14 M		
Nickel	<0.2 mg/kg	TM181		30.8 M	25 M	13.7 M	23.3 M		
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #		
Zinc	<1.9 mg/kg	TM181		78.1 M	385 M	25.5 M	169 M		
Soil Organic Matter (SOM)	<0.1 %	TM321			1.63				

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
			Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	390	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	381	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	165	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		140	<100	759	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
			Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		222	18500	145	<100	6130	<100
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	376	184	<100	472	<100
Anthracene	<100 µg/kg	TM157		149	<100	260	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		650	150	898	<100	<100	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		653	<100	1000	<100	<100	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		495	<100	634	<100	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		690	<100	917	<100	<100	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		448	<100	579	<100	<100	<100
Chrysene	<100 µg/kg	TM157		786	314	1130	<100	<100	<100
Fluoranthene	<100 µg/kg	TM157		970	318	1430	<100	<100	<100
Fluorene	<100 µg/kg	TM157		<100	1060	167	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		410	<100	522	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		562	1820	899	<100	224	<100
Pyrene	<100 µg/kg	TM157		834	455	1320	<100	<100	<100
Naphthalene	<100 µg/kg	TM157		185	3180	114	<100	7400	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		129	<100	159	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
			Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		242	<100	365	<100	<100	<100
Carbazole	<100 µg/kg	TM157		191	<100	610	128	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		349	<100	577	<100	<100	220
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
			Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		181	<100	651	514	260	484
Acenaphthylene	<100 µg/kg	TM157		<100	<100	555	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		572	<100	146	<100	<100	<100
Anthracene	<100 µg/kg	TM157		1270	<100	1110	142	<100	135
Benzo(a)anthracene	<100 µg/kg	TM157		4510	215	4440	596	<100	577
Benzo(b)fluoranthene	<100 µg/kg	TM157		3970	217	3740	761	<100	657
Benzo(k)fluoranthene	<100 µg/kg	TM157		2970	154	3620	493	<100	550
Benzo(a)pyrene	<100 µg/kg	TM157		3890	207	4600	815	<100	732
Benzo(g,h,i)perylene	<100 µg/kg	TM157		2220	<100	2420	511	<100	482
Chrysene	<100 µg/kg	TM157		4760	238	5680	749	241	881
Fluoranthene	<100 µg/kg	TM157		6840	252	12000	1090	144	1020
Fluorene	<100 µg/kg	TM157		599	<100	858	<100	399	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		2180	<100	2250	465	<100	413
Phenanthrene	<100 µg/kg	TM157		3130	<100	6550	776	1490	714
Pyrene	<100 µg/kg	TM157		5130	213	9060	963	322	993
Naphthalene	<100 µg/kg	TM157		170	<100	501	343	285	307
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		796	<100	665	129	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	349
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	285
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	223	<100	1140	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		173	454	15100	<100	1760	1750
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	675
Anthracene	<100 µg/kg	TM157		<100	121	<100	<100	<100	1230
Benzo(a)anthracene	<100 µg/kg	TM157		<100	728	129	<100	361	1720
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	841	115	<100	456	1590
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	700	<100	<100	339	1070
Benzo(a)pyrene	<100 µg/kg	TM157		<100	991	<100	<100	432	1460
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	669	<100	<100	303	780
Chrysene	<100 µg/kg	TM157		<100	1030	189	<100	502	1950
Fluoranthene	<100 µg/kg	TM157		<100	852	332	<100	580	2580
Fluorene	<100 µg/kg	TM157		<100	120	661	<100	<100	697
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	567	<100	<100	266	739
Phenanthrene	<100 µg/kg	TM157		138	743	692	<100	387	1980
Pyrene	<100 µg/kg	TM157		<100	900	307	<100	583	1910
Naphthalene	<100 µg/kg	TM157		<100	285	1560	<100	1050	519
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	155	<100	<100	<100	293

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
			Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	190	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	145	<100	<100	<100	889
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
			Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	372	201	3040	385	426
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	121	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	386	<100	<100	248	282
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	547	<100	<100	293	358
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	361	<100	<100	157	241
Benzo(a)pyrene	<100 µg/kg	TM157		<100	516	<100	<100	240	389
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	367	<100	<100	172	294
Chrysene	<100 µg/kg	TM157		111	723	113	<100	494	412
Fluoranthene	<100 µg/kg	TM157		181	520	147	<100	477	326
Fluorene	<100 µg/kg	TM157		<100	<100	228	<100	113	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	314	<100	<100	130	246
Phenanthrene	<100 µg/kg	TM157		122	445	385	402	500	262
Pyrene	<100 µg/kg	TM157		211	685	179	<100	495	373
Naphthalene	<100 µg/kg	TM157		<100	342	136	641	258	271
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
			Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		512	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	861
Carbazole	<100 µg/kg	TM157		<100	<100	123	143	<100	387
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	304
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
			Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		920	545	<100	706	517	642
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	1590
Anthracene	<100 µg/kg	TM157		<100	120	<100	160	<100	1200
Benzo(a)anthracene	<100 µg/kg	TM157		<100	538	<100	1300	<100	3180
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	649	<100	1190	<100	2430
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	425	<100	1070	<100	1990
Benzo(a)pyrene	<100 µg/kg	TM157		<100	593	<100	1740	125	2740
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	386	<100	1290	<100	1450
Chrysene	<100 µg/kg	TM157		<100	691	<100	1550	114	3490
Fluoranthene	<100 µg/kg	TM157		<100	873	<100	1740	123	4950
Fluorene	<100 µg/kg	TM157		<100	<100	2860	<100	293	1600
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	354	<100	904	<100	1440
Phenanthrene	<100 µg/kg	TM157		142	558	2620	840	283	4710
Pyrene	<100 µg/kg	TM157		<100	756	139	2250	153	3640
Naphthalene	<100 µg/kg	TM157		346	394	<100	372	346	327
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	123	<100	246	<100	505

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
			Depth (m)	1.50	0.45	1.00	1.10		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
			Sample Time	.	.	.	.		
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
			SDG Ref	130518-63	130518-63	130518-63	130518-63		
			Lab Sample No.(s)	7436450	7436447	7436448	7436445		
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100		
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100		
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100		
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100		
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	121	<100	<100		
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100		
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.50	0.45	1.00	1.10		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
		SDG Ref	130518-63	130518-63	130518-63	130518-63		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436450	7436447	7436448	7436445		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
2-Chlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100		
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100		
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100		
2,4-Dimethylphenol	<100 µg/kg	TM157	<100	<100	<100	<100		
2,4-Dichlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100		
2,4,6-Trichlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100		
2,4,5-Trichlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100		
1,4-Dichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100		
1,3-Dichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100		
1,2-Dichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100		
2-Chloronaphthalene	<100 µg/kg	TM157	<100	<100	<100	<100		
2-Methylnaphthalene	<100 µg/kg	TM157	141	980	119	254		
Acenaphthylene	<100 µg/kg	TM157	<100	<100	<100	<100		
Acenaphthene	<100 µg/kg	TM157	<100	<100	<100	<100		
Anthracene	<100 µg/kg	TM157	<100	<100	<100	<100		
Benzo(a)anthracene	<100 µg/kg	TM157	<100	267	<100	143		
Benzo(b)fluoranthene	<100 µg/kg	TM157	<100	291	<100	<100		
Benzo(k)fluoranthene	<100 µg/kg	TM157	<100	208	<100	<100		
Benzo(a)pyrene	<100 µg/kg	TM157	<100	328	<100	<100		
Benzo(g,h,i)perylene	<100 µg/kg	TM157	<100	222	<100	<100		
Chrysene	<100 µg/kg	TM157	123	393	<100	290		
Fluoranthene	<100 µg/kg	TM157	<100	409	<100	126		
Fluorene	<100 µg/kg	TM157	<100	<100	<100	<100		
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157	<100	186	<100	<100		
Phenanthrene	<100 µg/kg	TM157	296	315	<100	576		
Pyrene	<100 µg/kg	TM157	120	455	<100	372		
Naphthalene	<100 µg/kg	TM157	192	559	247	160		
Dibenzo(a,h)anthracene	<100 µg/kg	TM157	<100	<100	<100	<100		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
			Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		102	44	16	99	127	102
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1460000 M	1000 M	2540 M	913 M	749 M	1190000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<100 M	<5 M	<5 M	<5 M	<5 M	<100 M
Benzene	<10 µg/kg	TM089		687 M	<10 M	<10 M	<10 M	<10 M	<200 M
Toluene	<2 µg/kg	TM089		<40 M	8.04 M	2.28 M	<2 M	<2 M	<40 M
Ethylbenzene	<3 µg/kg	TM089		<60 M	<3 M	<3 M	<3 M	<3 M	<60 M
m,p-Xylene	<6 µg/kg	TM089		19000 M	21.4 M	<6 M	<6 M	<6 M	<120 M
o-Xylene	<3 µg/kg	TM089		<60 M	<3 M	<3 M	<3 M	<3 M	<60 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		19000	21.4	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		19700	29.4	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		14500	21.4	11.4	13	21.7	<200
Aliphatics >C6-C8	<10 µg/kg	TM089		230000	84.4	106	52	91.5	5170
Aliphatics >C8-C10	<10 µg/kg	TM089		358000	232	457	170	130	113000
Aliphatics >C10-C12	<10 µg/kg	TM089		358000	276	994	337	248	595000
Aliphatics >C12-C16	<100 µg/kg	TM173		12700	583000	92200	8980	130000	92000
Aliphatics >C16-C21	<100 µg/kg	TM173		37000	556000	459000	22500	69700	16600
Aliphatics >C21-C35	<100 µg/kg	TM173		175000	710000	1210000	54700	341000	42100
Aliphatics >C35-C44	<100 µg/kg	TM173		55200	166000	199000	3080	125000	10900
Total Aliphatics >C12-C44	<100 µg/kg	TM173		280000	2020000	1960000	89300	665000	162000
Aromatics >EC5-EC7	<10 µg/kg	TM089		687	<10	<10	<10	<10	<200
Aromatics >EC7-EC8	<10 µg/kg	TM089		<200	<10	<10	<10	<10	<200
Aromatics >EC8-EC10	<10 µg/kg	TM089		257000	178	304	114	91.5	75500
Aromatics >EC10-EC12	<10 µg/kg	TM089		239000	184	662	225	164	396000
Aromatics >EC12-EC16	<100 µg/kg	TM173		4580	564000	24400	6690	467000	10500
Aromatics >EC16-EC21	<100 µg/kg	TM173		17700	563000	198000	14100	54600	9690
Aromatics >EC21-EC35	<100 µg/kg	TM173		146000	848000	535000	44200	118000	69700
Aromatics >EC35-EC44	<100 µg/kg	TM173		78600	204000	145000	3250	63200	15600
Aromatics >EC40-EC44	<100 µg/kg	TM173		31700	79100	61000	<100	21400	3670
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		247000	2180000	902000	68200	703000	106000
Total Aliphatics >C5-35	<100 µg/kg	TM173		1180000	1850000	1760000	86800	541000	864000
Total Aromatics >C5-35	<100 µg/kg	TM173		665000	1970000	758000	65300	640000	562000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1850000	3830000	2520000	152000	1180000	1430000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1980000	4200000	2860000	158000	1370000	1450000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
		Sample Time	.	.	.	.	.	.
		Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	73	96	16	30	115	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	613 M	1200 M	12800 M	415 M	122000 M	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 M	<5 M	<5 M	<5 M	<25 M	
Benzene	<10 µg/kg	TM089	<10 M	<10 M	<10 M	<10 M	<50 M	
Toluene	<2 µg/kg	TM089	4.38 M	<2 M	<2 M	2.26 M	<10 M	
Ethylbenzene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	<3 M	<15 M	
m,p-Xylene	<6 µg/kg	TM089	19.7 M	<6 M	<6 M	<6 M	<30 M	
o-Xylene	<3 µg/kg	TM089	<3 M	11.7 M	<3 M	<3 M	<15 M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	19.7	11.7	<9	<9	<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	24.1	<24	<24	<24	<24	
Aliphatics >C5-C6	<10 µg/kg	TM089	16.4	<10	17.6	11.3	151	
Aliphatics >C6-C8	<10 µg/kg	TM089	127	17.6	290	90.4	9130	
Aliphatics >C8-C10	<10 µg/kg	TM089	202	302	2660	96.1	28400	
Aliphatics >C10-C12	<10 µg/kg	TM089	63.6	395	4840	82.5	39400	
Aliphatics >C12-C16	<100 µg/kg	TM173	6580	22800	327000	13100	134000	81200
Aliphatics >C16-C21	<100 µg/kg	TM173	9520	14300	306000	14700	96000	86400
Aliphatics >C21-C35	<100 µg/kg	TM173	41100	81900	967000	70700	207000	282000
Aliphatics >C35-C44	<100 µg/kg	TM173	14000	18100	278000	15500	61800	70600
Total Aliphatics >C12-C44	<100 µg/kg	TM173	71200	137000	1880000	114000	498000	520000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<50	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<50	
Aromatics >EC8-EC10	<10 µg/kg	TM089	153	216	1770	70.1	18900	
Aromatics >EC10-EC12	<10 µg/kg	TM089	42.7	263	3230	55.4	26200	
Aromatics >EC12-EC16	<100 µg/kg	TM173	2540	8220	48900	7300	50500	65900
Aromatics >EC16-EC21	<100 µg/kg	TM173	11600	12800	114000	11800	58900	83700
Aromatics >EC21-EC35	<100 µg/kg	TM173	74600	50800	443000	83000	133000	230000
Aromatics >EC35-EC44	<100 µg/kg	TM173	40600	29000	166000	39600	46100	83100
Aromatics >EC40-EC44	<100 µg/kg	TM173	18000	11400	63400	14600	16900	32700
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	129000	101000	772000	142000	288000	463000
Total Aliphatics >C5-35	<100 µg/kg	TM173	57600	120000	1610000	98800	514000	452000
Total Aromatics >C5-35	<100 µg/kg	TM173	88900	72200	611000	102000	287000	381000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	146000	192000	2220000	201000	801000	833000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	201000	239000	2660000	256000	909000	987000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		39	63	85	1	40	116
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		9860 M	46300 M	146000 M	78.8 M	13500 M	43400 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	<100 M	<5 M	<5 M	<5 M
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<200 M	<10 M	10.7 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<40 M	<2 M	9.65 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<60 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<120 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<60 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	31.1	<200	<10	34.3	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		159	1770	1430	17.5	289	178
Aliphatics >C8-C10	<10 µg/kg	TM089		1420	12700	37200	15.3	2130	5950
Aliphatics >C10-C12	<10 µg/kg	TM089		4390	14000	49200	13.1	5740	20000
Aliphatics >C12-C16	<100 µg/kg	TM173		84600	56900	195000	4200	77300	47900
Aliphatics >C16-C21	<100 µg/kg	TM173		109000	42300	161000	9590	78900	14900
Aliphatics >C21-C35	<100 µg/kg	TM173		2910000	105000	386000	49900	189000	50300
Aliphatics >C35-C44	<100 µg/kg	TM173		841000	31900	182000	48400	69700	13500
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3950000	236000	924000	112000	415000	127000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<200	<10	10.7	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<200	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		946	8500	24800	10.9	1420	3970
Aromatics >EC10-EC12	<10 µg/kg	TM089		2930	9310	32800	<10	3830	13300
Aromatics >EC12-EC16	<100 µg/kg	TM173		18900	37400	397000	3450	32600	42400
Aromatics >EC16-EC21	<100 µg/kg	TM173		40600	44700	235000	6600	43100	11500
Aromatics >EC21-EC35	<100 µg/kg	TM173		619000	143000	490000	45000	149000	49000
Aromatics >EC35-EC44	<100 µg/kg	TM173		224000	60500	241000	34900	65400	17200
Aromatics >EC40-EC44	<100 µg/kg	TM173		80400	24300	93200	16300	25300	6260
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		902000	286000	1360000	89900	290000	120000
Total Aliphatics >C5-35	<100 µg/kg	TM173		3110000	232000	830000	63700	353000	139000
Total Aromatics >C5-35	<100 µg/kg	TM173		682000	243000	1180000	55000	230000	120000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		3800000	475000	2010000	119000	584000	259000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		4860000	568000	2430000	202000	719000	290000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
		Sample Time	.	.	.	.	.	.
		Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	130	59	82	76	128	9
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	294000 M	14700 M	51800 M	9580 M	8620 M	430 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100 M	<5 M	<5 M	<5 M	<5 M	<5 M
Benzene	<10 µg/kg	TM089	<200 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089	<40 M	<2 M	<2 M	<2 M	<2 M	4.4 M
Ethylbenzene	<3 µg/kg	TM089	<60 M	<3 M	<3 M	<3 M	27.1 M	<3 M
m,p-Xylene	<6 µg/kg	TM089	<120 M	<6 M	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089	<60 M	<3 M	<3 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	27.1	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<200	28.1	22.9	21.7	18.1	15.4
Aliphatics >C6-C8	<10 µg/kg	TM089	8680	522	1920	389	172	116
Aliphatics >C8-C10	<10 µg/kg	TM089	56400	3120	12800	2100	963	80.3
Aliphatics >C10-C12	<10 µg/kg	TM089	115000	5370	17100	3400	4070	86.9
Aliphatics >C12-C16	<100 µg/kg	TM173	128000	129000	97700	256000	115000	18400
Aliphatics >C16-C21	<100 µg/kg	TM173	313000	152000	181000	316000	154000	54300
Aliphatics >C21-C35	<100 µg/kg	TM173	984000	387000	439000	442000	461000	228000
Aliphatics >C35-C44	<100 µg/kg	TM173	277000	110000	103000	83000	131000	65100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1700000	778000	820000	1100000	861000	366000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<200	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	37600	2080	8500	1400	669	58.3
Aromatics >EC10-EC12	<10 µg/kg	TM089	76600	3580	11400	2270	2720	57.2
Aromatics >EC12-EC16	<100 µg/kg	TM173	71400	59800	41200	55000	42100	9830
Aromatics >EC16-EC21	<100 µg/kg	TM173	153000	115000	86600	87300	83500	31300
Aromatics >EC21-EC35	<100 µg/kg	TM173	382000	367000	208000	95900	337000	192000
Aromatics >EC35-EC44	<100 µg/kg	TM173	124000	144000	63700	32400	121000	78900
Aromatics >EC40-EC44	<100 µg/kg	TM173	44000	54900	21600	13100	42700	29900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	731000	687000	400000	270000	583000	312000
Total Aliphatics >C5-35	<100 µg/kg	TM173	1600000	677000	749000	1020000	735000	301000
Total Aromatics >C5-35	<100 µg/kg	TM173	721000	548000	356000	242000	466000	234000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	2330000	1220000	1110000	1260000	1200000	535000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2730000	1480000	1270000	1380000	1450000	679000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-4&+§@	Sample deviation (see appendix)							
		Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
		Sample Time	.	.	.	.	.	.
		Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
		Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
		AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	74	24	130	29	124	14
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	48000 M	7750 M	219000 M	3650 M	113000 M	6160 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 M	<5 M	<100 M	<5 M	<50 M	<5 M
Benzene	<10 µg/kg	TM089	<10 M	<10 M	<200 M	<10 M	<100 M	<10 M
Toluene	<2 µg/kg	TM089	<2 M	3.45 M	<40 M	2.36 M	<20 M	<2 M
Ethylbenzene	<3 µg/kg	TM089	<3 M	<3 M	<60 M	<3 M	<30 M	<3 M
m,p-Xylene	<6 µg/kg	TM089	<6 M	9.2 M	<120 M	<6 M	<60 M	<6 M
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M	<60 M	<3 M	<30 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	9.2	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	19.8	19.6	565	13	<100	28
Aliphatics >C6-C8	<10 µg/kg	TM089	4760	115	7430	96.8	6540	283
Aliphatics >C8-C10	<10 µg/kg	TM089	14100	1160	35700	565	28200	1290
Aliphatics >C10-C12	<10 µg/kg	TM089	11900	3380	91000	1550	35500	2210
Aliphatics >C12-C16	<100 µg/kg	TM173	29900	80300	295000	119000	92500	99600
Aliphatics >C16-C21	<100 µg/kg	TM173	45900	123000	211000	99900	111000	143000
Aliphatics >C21-C35	<100 µg/kg	TM173	73300	293000	77800	113000	28400	401000
Aliphatics >C35-C44	<100 µg/kg	TM173	15100	80500	15600	30100	5600	101000
Total Aliphatics >C12-C44	<100 µg/kg	TM173	164000	577000	600000	362000	237000	744000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<200	<10	<100	10.1
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<200	<10	<100	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	9390	787	23800	382	18800	860
Aromatics >EC10-EC12	<10 µg/kg	TM089	7900	2260	60700	1030	23700	1480
Aromatics >EC12-EC16	<100 µg/kg	TM173	15900	20800	413000	39700	48200	23300
Aromatics >EC16-EC21	<100 µg/kg	TM173	23400	54500	278000	64800	47600	68600
Aromatics >EC21-EC35	<100 µg/kg	TM173	54700	244000	59500	144000	27700	280000
Aromatics >EC35-EC44	<100 µg/kg	TM173	18700	127000	6690	55700	7750	96000
Aromatics >EC40-EC44	<100 µg/kg	TM173	7450	55500	2050	19600	2570	35700
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	113000	446000	758000	304000	131000	468000
Total Aliphatics >C5-35	<100 µg/kg	TM173	180000	501000	719000	334000	302000	647000
Total Aromatics >C5-35	<100 µg/kg	TM173	111000	322000	836000	250000	166000	374000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	291000	823000	1550000	584000	468000	1020000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	325000	1030000	1580000	670000	481000	1220000

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
			Depth (m)	1.50	0.45	1.00	1.10		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
			Sample Time	.	.	.	.		
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
			SDG Ref	130518-63	130518-63	130518-63	130518-63		
			Lab Sample No.(s)	7436450	7436447	7436448	7436445		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		100	61	98	78		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		13400 M	15200 M	163000 M	16500 M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	<100 M	<5 M		
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<200 M	<10 M		
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<40 M	<2 M		
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<60 M	<3 M		
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<120 M	<6 M		
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<60 M	<3 M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9		
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24		
Aliphatics >C5-C6	<10 µg/kg	TM089		19.8	70.7	1420	268		
Aliphatics >C6-C8	<10 µg/kg	TM089		289	1240	47100	2620		
Aliphatics >C8-C10	<10 µg/kg	TM089		1740	3390	37800	2990		
Aliphatics >C10-C12	<10 µg/kg	TM089		6150	4940	30500	5160		
Aliphatics >C12-C16	<100 µg/kg	TM173		23300	109000	30700	195000		
Aliphatics >C16-C21	<100 µg/kg	TM173		18800	129000	12500	188000		
Aliphatics >C21-C35	<100 µg/kg	TM173		25800	375000	<100	389000		
Aliphatics >C35-C44	<100 µg/kg	TM173		5450	108000	<100	121000		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		73400	722000	43200	893000		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<200	<10		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<200	<10		
Aromatics >EC8-EC10	<10 µg/kg	TM089		1160	2260	25200	1990		
Aromatics >EC10-EC12	<10 µg/kg	TM089		4100	3290	20300	3440		
Aromatics >EC12-EC16	<100 µg/kg	TM173		12600	20500	15900	141000		
Aromatics >EC16-EC21	<100 µg/kg	TM173		14400	45100	6790	164000		
Aromatics >EC21-EC35	<100 µg/kg	TM173		39500	216000	1940	433000		
Aromatics >EC35-EC44	<100 µg/kg	TM173		11100	104000	<100	149000		
Aromatics >EC40-EC44	<100 µg/kg	TM173		3800	41800	<100	56400		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		77700	386000	24600	886000		
Total Aliphatics >C5-35	<100 µg/kg	TM173		76100	623000	160000	783000		
Total Aromatics >C5-35	<100 µg/kg	TM173		71800	288000	70300	743000		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		148000	911000	230000	1530000		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.50	0.45	1.00	1.10		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
		SDG Ref	130518-63	130518-63	130518-63	130518-63		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436450	7436447	7436448	7436445		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	165000	1120000	230000	1800000		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
			Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
			AGS Reference						
Dibromofluoromethane**	%	TM116		101	103	101	98.8	101	103
Toluene-d8**	%	TM116		95.8	99.3	97.6	100	99.4	98.6
4-Bromofluorobenzene**	%	TM116		125	105	106	112	115	118
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<4 M	<4 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<7	<7	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<10	<10	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<13 M	<13 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<14 M	<14 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<6 M	<6 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<10 #	<10 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		229 M	<140 M	<140 M	40 M	15.3 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<10 #	<10 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<11 M	<11 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<11 M	<11 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<8 M	<8 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<5 M	<5 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<12 M	<12 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<14 M	<14 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<8 M	<8 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<7 M	<7 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<11 M	<11 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<14 M	<14 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<5 M	<5 M	<100 M
Benzene	<9 µg/kg	TM116		323 M	<180 M	<180 M	<9 M	<9 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<9 M	<9 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<12 M	<12 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<9 M	<9 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<7 M	<7 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<14 M	<14 M	<280 M
Toluene	<5 µg/kg	TM116		202 M	<100 M	<100 M	<5 M	<5 M	191 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<14	<14	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<10 M	<10 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
			Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<7 #	<7 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<5 M	<5 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<13 M	<13 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<12 M	<12 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<5 M	<5 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<10 M	<10 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		2660 M	<80 M	<80 M	<4 M	<4 M	257 M
p/m-Xylene	<14 µg/kg	TM116		26000 #	<280 #	<280 #	<14 #	<14 #	394 #
o-Xylene	<10 µg/kg	TM116		10700 M	<200 M	<200 M	<10 M	<10 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<10 M	<10 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<10 M	<10 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		4380 M	<100 M	<100 M	<5 M	<5 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<10 #	<10 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<17 M	<17 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<10 M	<10 M	<200 M
Propylbenzene	<11 µg/kg	TM116		8550 M	<220 M	<220 M	<11 M	<11 M	811 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<9 M	<9 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		55500 #	<160 #	<160 #	<8 #	<8 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<12 M	<12 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<12 #	<12 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		185000 3	<180 #	<180 #	<9 #	23.2 #	6910 #
sec-Butylbenzene	<10 µg/kg	TM116		5200 M	<200 M	<200 M	<10 M	<10 M	3620 M
4-Isopropyltoluene	<11 µg/kg	TM116		2710 M	<220 M	<220 M	<11 M	<11 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<6 M	<6 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<5 M	<5 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<10 M	<10 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<12 M	<12 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<14 M	<14 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<15	<15	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<6 #	<6 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<12	<12	<240
Naphthalene	<13 µg/kg	TM116		4670 M	<260 M	<260 M	<13 M	<13 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend		Customer Sample R	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.95	2.00	0.50	2.00	1.20	1.50
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013	17/05/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436479	7436480	7436477	7436478	7436475	7436476
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<120 M	<120 M	<6 M	<6 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
			Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
			AGS Reference						
Dibromofluoromethane**	%	TM116		101	97.1	98.2	101	104	103
Toluene-d8**	%	TM116		97.7	100	98	98.3	100	98.8
4-Bromofluorobenzene**	%	TM116		110	108	112	109	102	113
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<4 M	<80 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<7	<140	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<10	<200	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<13 M	<260 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<6 M	<120 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<10 #	<200 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	8.92 M	<140 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<10 #	<200 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<8 M	<160 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<8 M	<160 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<7 M	<140 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<9 M	<180 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<9 M	<180 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<9 M	<180 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<7 M	<140 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<14	<280	<280	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
			Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<7 #	<140 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<13 M	<260 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<4 M	<80 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<14 #	<280 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	14 M	<200 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<10 #	<200 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<17 M	<340 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	302 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	316 M	<180 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<8 #	<160 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	38.7 M	<240 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<12 #	<240 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<9 #	<180 #	<180 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	313 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<6 M	<120 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<15	<300	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<6 #	<120 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<12	<240	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<13 M	<260 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP008	CHVTP008	CHVTP009	CHVTP010	CHVTP010	CHVTP011
			Depth (m)	1.20	1.80	1.00	0.20	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/05/2013	17/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436473	7436474	7436472	7436470	7436471	7436467
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<6 M	<120 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
Dibromofluoromethane**	%	TM116		104	103 2	105	94.3	102	103
Toluene-d8**	%	TM116		98.4	99.4 2	98.3	91.7	98.7	102
4-Bromofluorobenzene**	%	TM116		107	106 2	107	150	103	102
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 2 M	<80 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140 2	<140	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200 2	<200	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 2 M	<260 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 2 M	<280 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 2 M	<120 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 2 #	<200 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 2 M	<140 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 2 #	<200 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 2 M	<220 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 2 M	<220 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 2 M	<160 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 2 M	<100 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 2 M	<240 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 2 M	<280 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 2 M	<160 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 2 M	<140 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 2 M	<220 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 2 M	<280 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 2 M	<100 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<180 2 M	<180 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 2 M	<180 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 2 M	<240 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 2 M	<180 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 2 M	<140 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 2 M	<280 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<100 2 M	<100 M	<100 M	<100 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280 2	<280	<280	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 2 M	<200 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 2 #	<140 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 2 M	<100 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 2 M	<260 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 2 M	<240 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 2 M	<100 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 2 M	<200 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 2 M	<80 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 2 #	<280 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 2 M	<200 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 2 M	<200 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 2 M	<200 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 2 M	685 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 2 #	<200 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 2 M	<340 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 2 M	<200 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 2 M	1310 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 2 M	<180 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 2 #	<160 #	<160 #	<160 #	384 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 2 M	<240 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 2 #	<240 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	333 2 #	3350 #	<180 #	<180 #	1490 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 2 M	1160 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 2 M	627 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 2 M	<120 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 2 M	<100 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 2 M	1380 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 2 M	<240 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 2 M	<280 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300 2	<300	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 2 #	<120 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240 2	<240	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 2 M	<260 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014
			Depth (m)	1.10	0.45	1.60	0.20	1.00	0.70
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436469	7436465	7436466	7436463	7436464	7436461
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 2 M	<120 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
			Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
			AGS Reference						
Dibromofluoromethane**	%	TM116		100	100	105	103	103	99.8
Toluene-d8**	%	TM116		100	97	103	98.4	101	97.4
4-Bromofluorobenzene**	%	TM116		115	124	104	104	109	108
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<8 M	<80 M	<80 M	<4 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<14	<140	<140	<7	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<20	<200	<200	<10	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<26 M	<260 M	<260 M	<13 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<28 M	<280 M	<280 M	<14 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<12 M	<120 M	<120 M	<6 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<20 #	<200 #	<200 #	<10 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<14 M	<140 M	<140 M	<7 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<20 #	<200 #	<200 #	<10 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<22 M	<220 M	<220 M	<11 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<22 M	<220 M	<220 M	<11 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<16 M	<160 M	<160 M	<8 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<10 M	<100 M	<100 M	<5 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<24 M	<240 M	<240 M	<12 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<28 M	<280 M	<280 M	<14 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<16 M	<160 M	<160 M	<8 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<14 M	<140 M	<140 M	<7 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<22 M	<220 M	<220 M	<11 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<28 M	<280 M	<280 M	<14 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<10 M	<100 M	<100 M	<5 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<18 M	<180 M	<180 M	<9 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<18 M	<180 M	<180 M	<9 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<24 M	<240 M	<240 M	<12 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<18 M	<180 M	<180 M	<9 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<14 M	<140 M	<140 M	<7 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<28 M	<280 M	<280 M	<14 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	16.5 M	<100 M	<100 M	<5 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<28	<280	<280	<14	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
			Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<14 #	<140 #	<140 #	<7 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<10 M	<100 M	<100 M	<5 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<26 M	<260 M	<260 M	<13 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<24 M	<240 M	<240 M	<12 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<10 M	<100 M	<100 M	<5 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<8 M	<80 M	<80 M	<4 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<28 #	<280 #	<280 #	<14 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<10 M	<100 M	<100 M	<5 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<20 #	<200 #	<200 #	<10 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<34 M	<340 M	<340 M	<17 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<22 M	<220 M	<220 M	<11 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<18 M	<180 M	<180 M	<9 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<16 #	<160 #	<160 #	<8 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<24 M	<240 M	<240 M	<12 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<24 #	<240 #	<240 #	<12 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<18 #	<180 #	<180 #	29.5 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	342 M	<220 M	<220 M	<11 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<12 M	<120 M	<120 M	<6 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<10 M	<100 M	<100 M	<5 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<20 M	<200 M	<200 M	<10 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<24 M	<240 M	<240 M	<12 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<28 M	<280 M	<280 M	<14 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<30	<300	<300	<15	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<12 #	<120 #	<120 #	<6 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<24	<240	<240	<12	<240
Naphthalene	<13 µg/kg	TM116		<260 M	230 M	<260 M	<260 M	<13 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend		Customer Sample R	CHVTP014	CHVTP015	CHVTP015	CHVTP016	CHVTP016	CHVTP017
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.60	0.30	1.60	0.80	1.85	0.40
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
		SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436462	7436459	7436460	7436457	7436458	7436455
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<12 M	<120 M	<120 M	<6 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
			Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
			AGS Reference						
Dibromofluoromethane**	%	TM116		102	101	103	104	101	102
Toluene-d8**	%	TM116		98.5	97.9	99	99.3	98.6	97.5
4-Bromofluorobenzene**	%	TM116		99.6	108	105	105	128	120
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<4 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140	<7	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200	<10	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<13 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<6 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<10 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	8.55 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<10 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<11 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<11 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<8 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<8 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<7 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<11 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<7 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<280	<14	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
			Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #	<7 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<13 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<4 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	<280 #	<14 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		171 M	<100 M	<100 M	<100 M	377 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<10 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<340 M	<17 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<10 M	<200 M
Propylbenzene	<11 µg/kg	TM116		375 M	<220 M	<220 M	<220 M	685 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<9 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	<160 #	<8 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #	<12 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		204 #	<180 #	<180 #	<180 #	<9 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	441 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<11 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<6 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<5 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	399 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<12 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<14 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300	<15	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #	<6 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240	<12	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<13 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
			Depth (m)	1.50	0.40	1.10	0.45	1.20	0.45
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013	16/05/2013
			Sample Time	.	.	.	.	.	.
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013	18/05/2013
			SDG Ref	130518-63	130518-63	130518-63	130518-63	130518-63	130518-63
			Lab Sample No.(s)	7436456	7436453	7436454	7436451	7436452	7436449
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<6 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
			Depth (m)	1.50	0.45	1.00	1.10		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
			Sample Time	.	.	.	.		
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
			SDG Ref	130518-63	130518-63	130518-63	130518-63		
			Lab Sample No.(s)	7436450	7436447	7436448	7436445		
			AGS Reference						
Dibromofluoromethane**	%	TM116		100	104	102	105		
Toluene-d8**	%	TM116		101	101	107	100		
4-Bromofluorobenzene**	%	TM116		129	105	117	109		
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<80 M	<4 M	<8 M		
Chloromethane	<7 µg/kg	TM116		<7	<140	<7	<14		
Vinyl Chloride	<10 µg/kg	TM116		<10	<200	<10	<20		
Bromomethane	<13 µg/kg	TM116		<13 M	<260 M	<13 M	<26 M		
Chloroethane	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<120 M	<6 M	<12 M		
1,1-Dichloroethene	<10 µg/kg	TM116		<10 #	<200 #	<10 #	<20 #		
Carbon Disulphide	<7 µg/kg	TM116		8.8 M	<140 M	15.4 M	<14 M		
Dichloromethane	<10 µg/kg	TM116		<10 #	<200 #	<10 #	<20 #		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M		
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M		
1,1-Dichloroethane	<8 µg/kg	TM116		<8 M	<160 M	<8 M	<16 M		
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M		
2,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M		
Bromochloromethane	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M		
Chloroform	<8 µg/kg	TM116		<8 M	<160 M	<8 M	<16 M		
1,1,1-Trichloroethane	<7 µg/kg	TM116		<7 M	<140 M	<7 M	<14 M		
1,1-Dichloropropene	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M		
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M		
1,2-Dichloroethane	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M		
Benzene	<9 µg/kg	TM116		10.1 M	<180 M	<9 M	<18 M		
Trichloroethene	<9 µg/kg	TM116		<9 M	<180 M	<9 M	<18 M		
1,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M		
Dibromomethane	<9 µg/kg	TM116		<9 M	<180 M	<9 M	<18 M		
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<140 M	<7 M	<14 M		
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M		
Toluene	<5 µg/kg	TM116		8.54 M	<100 M	<5 M	12 M		
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<14	<280	<14	<28		
1,1,2-Trichloroethane	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
			Depth (m)	1.50	0.45	1.00	1.10		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
			Sample Time	.	.	.	.		
			Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
			SDG Ref	130518-63	130518-63	130518-63	130518-63		
			Lab Sample No.(s)	7436450	7436447	7436448	7436445		
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<7 #	<140 #	<7 #	<14 #		
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M		
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<260 M	<13 M	<26 M		
1,2-Dibromoethane	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M		
Chlorobenzene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M		
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M		
Ethylbenzene	<4 µg/kg	TM116		11.1 M	<80 M	<4 M	<8 M		
p/m-Xylene	<14 µg/kg	TM116		20.7 #	<280 #	<14 #	<28 #		
o-Xylene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M		
Styrene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M		
Bromoform	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M		
Isopropylbenzene	<5 µg/kg	TM116		45.7 M	<100 M	428 M	<10 M		
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<200 #	<10 #	<20 #		
1,2,3-Trichloropropane	<17 µg/kg	TM116		<17 M	<340 M	<17 M	<34 M		
Bromobenzene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M		
Propylbenzene	<11 µg/kg	TM116		67.5 M	<220 M	623 M	30.9 M		
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<180 M	<9 M	<18 M		
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<160 #	<8 #	<16 #		
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M		
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<240 #	<12 #	<24 #		
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		38.2 #	<180 #	<9 #	<18 #		
sec-Butylbenzene	<10 µg/kg	TM116		207 M	<200 M	313 M	<20 M		
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M		
1,3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<120 M	<6 M	<12 M		
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M		
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<200 M	257 M	<20 M		
1,2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M		
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M		
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<300	<15	<30		
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<120 #	<6 #	<12 #		
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<240	<12	<24		
Naphthalene	<13 µg/kg	TM116		<13 M	<260 M	<13 M	<26 M		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

VOC MS (S)

Results Legend		Customer Sample R	CHVTP020	CHVTP021	CHVTP021	CHVTP022		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	1.50	0.45	1.00	1.10		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	16/05/2013	16/05/2013	16/05/2013	16/05/2013		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/05/2013	18/05/2013	18/05/2013	18/05/2013		
		SDG Ref	130518-63	130518-63	130518-63	130518-63		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7436450	7436447	7436448	7436445		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component		**LOD/Units**	**Method**					
1,2,3-Trichlorobenzene		<6 µg/kg	TM116	<6 M	<120 M	<6 M	<12 M		

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP004 0.95 SOLID 17/05/2013 00:00:00 130518-63 7436479 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP006 0.50 SOLID 17/05/2013 00:00:00 130518-63 7436477 TM048	02/06/13	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP007 1.20 SOLID 17/05/2013 00:00:00 130518-63 7436475 TM048	02/06/13	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP008 1.20 SOLID 17/05/2013 00:00:00 130518-63 7436473 TM048	02/06/13	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP009 1.00 SOLID 16/05/2013 00:00:00 130518-63 7436472 TM048	03/06/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP010 0.20 SOLID 16/05/2013 00:00:00 130518-63 7436470 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP011 0.45 SOLID 16/05/2013 00:00:00 130518-63 7436467 TM048	03/06/13	Paul Fenney	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP012 0.45 SOLID 16/05/2013 00:00:00 130518-63 7436465 TM048	03/06/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP013 0.20 SOLID 16/05/2013 00:00:00 130518-63 7436463 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP014 0.70 SOLID 16/05/2013 00:00:00 130518-63 7436461 TM048	03/06/13	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP015 0.30 SOLID 16/05/2013 00:00:00 130518-63 7436459 TM048	03/06/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP016 0.80 SOLID 16/05/2013 00:00:00 130518-63 7436457 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP017 0.40 SOLID 16/05/2013 00:00:00 130518-63 7436455 TM048	03/06/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP018 0.40 SOLID 16/05/2013 00:00:00 130518-63 7436453 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Detected (#)	Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP019 0.45 SOLID 16/05/2013 00:00:00 130518-63 7436451 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Trace (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP020 0.45 SOLID 16/05/2013 00:00:00 130518-63 7436449 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP021 0.45 SOLID 16/05/2013 00:00:00 130518-63 7436447 TM048	02/06/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP022 1.10 SOLID 16/05/2013 00:00:00 130518-63 7436445 TM048	02/06/13	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP011 0.45 SOLID 16/05/2013 00:00:00 130518-63 7436467 TM 304	None (#)	N/C	0.0033 (#)	<0.001 (#)	0.0035 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP013 0.20 SOLID 16/05/2013 00:00:00 130518-63 7436463 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP018 0.40 SOLID 16/05/2013 00:00:00 130518-63 7436453 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP020 0.45 SOLID 16/05/2013 00:00:00 130518-63 7436449 TM 304	None (#)	N/C	0.0014 (#)	<0.001 (#)	0.0015 (#)

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Notification of NDPs (No determination possible)

Date Received : 18/05/2013 14:25:21

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
7436459	CHVTP015	0.30	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436470	CHVTP010	0.20	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436458	CHVTP016	1.85	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436465	CHVTP012	0.45	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436467	CHVTP011	0.45	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436451	CHVTP019	0.45	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436447	CHVTP021	0.45	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436457	CHVTP016	0.80	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436449	CHVTP020	0.45	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436472	CHVTP009	1.00	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436453	CHVTP018	0.40	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436455	CHVTP017	0.40	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436456	CHVTP017	1.50	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436479	CHVTP004	0.95	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7436463	CHVTP013	0.20	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Test Completion Dates

Lab Sample No(s)	7436479	7436480	7436477	7436478	7436475	7436476	7436473	7436474	7436472	7436470
Customer Sample Ref.	CHVTP004	CHVTP004	CHVTP006	CHVTP006	CHVTP007	CHVTP007	CHVTP008	CHVTP008	CHVTP009	CHVTP010
AGS Ref.										
Depth	0.95	2.00	0.50	2.00	1.20	1.50	1.20	1.80	1.00	0.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	03-Jun-2013		03-Jun-2013		03-Jun-2013		03-Jun-2013		03-Jun-2013	03-Jun-2013
EPH CWG (Aliphatic) GC (S)	29-May-2013	28-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	28-May-2013	29-May-2013	29-May-2013
EPH CWG (Aromatic) GC (S)	29-May-2013	28-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	28-May-2013	29-May-2013	29-May-2013
GRO by GC-FID (S)	29-May-2013	29-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	28-May-2013	29-May-2013	29-May-2013
Metals in solid samples by OES	24-May-2013	24-May-2013	24-May-2013	28-May-2013	28-May-2013	24-May-2013	24-May-2013	24-May-2013	24-May-2013	28-May-2013
pH	28-May-2013	28-May-2013	28-May-2013	24-May-2013	28-May-2013	24-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013
Sample description	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013
Semi Volatile Organic Compounds	29-May-2013	24-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013
Total Organic Carbon		28-May-2013	04-Jun-2013	28-May-2013	04-Jun-2013	28-May-2013	04-Jun-2013	28-May-2013		
Total Organic Carbon (Asb)	04-Jun-2013								04-Jun-2013	04-Jun-2013
TPH CWG GC (S)	29-May-2013	29-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	28-May-2013	29-May-2013	29-May-2013
VOC MS (S)	31-May-2013	30-May-2013	31-May-2013	29-May-2013	29-May-2013	30-May-2013	31-May-2013	29-May-2013	31-May-2013	31-May-2013

Lab Sample No(s)	7436471	7436467	7436469	7436465	7436466	7436463	7436464	7436461	7436462	7436459
Customer Sample Ref.	CHVTP010	CHVTP011	CHVTP011	CHVTP012	CHVTP012	CHVTP013	CHVTP013	CHVTP014	CHVTP014	CHVTP015
AGS Ref.										
Depth	1.20	0.45	1.10	0.45	1.60	0.20	1.00	0.70	1.60	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		03-Jun-2013		03-Jun-2013		03-Jun-2013		03-Jun-2013		03-Jun-2013
Asbestos Quantification - Full		13-Jun-2013				12-Jun-2013				
EPH CWG (Aliphatic) GC (S)	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013
EPH CWG (Aromatic) GC (S)	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013
GRO by GC-FID (S)	28-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	24-May-2013	24-May-2013	25-May-2013
Metals in solid samples by OES	28-May-2013	24-May-2013	24-May-2013	24-May-2013	28-May-2013	24-May-2013	24-May-2013	28-May-2013	24-May-2013	24-May-2013
pH	28-May-2013	28-May-2013	24-May-2013	28-May-2013	28-May-2013	28-May-2013	24-May-2013	28-May-2013	24-May-2013	28-May-2013
Sample description	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013
Semi Volatile Organic Compounds	29-May-2013	29-May-2013	24-May-2013	29-May-2013	29-May-2013	24-May-2013	24-May-2013	29-May-2013	24-May-2013	29-May-2013
Total Organic Carbon	28-May-2013		28-May-2013		28-May-2013		28-May-2013	04-Jun-2013	28-May-2013	
Total Organic Carbon (Asb)		04-Jun-2013		04-Jun-2013		04-Jun-2013				04-Jun-2013
TPH CWG GC (S)	28-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013
VOC MS (S)	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	31-May-2013	30-May-2013	29-May-2013	29-May-2013	29-May-2013

Lab Sample No(s)	7436460	7436457	7436458	7436455	7436456	7436453	7436454	7436451	7436452	7436449
Customer Sample Ref.	CHVTP015	CHVTP016	CHVTP016	CHVTP017	CHVTP017	CHVTP018	CHVTP018	CHVTP019	CHVTP019	CHVTP020
AGS Ref.										
Depth	1.60	0.80	1.85	0.40	1.50	0.40	1.10	0.45	1.20	0.45
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		03-Jun-2013		03-Jun-2013		03-Jun-2013		03-Jun-2013		03-Jun-2013
Asbestos Quantification - Full						13-Jun-2013				13-Jun-2013
EPH CWG (Aliphatic) GC (S)	28-May-2013	29-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013
EPH CWG (Aromatic) GC (S)	28-May-2013	29-May-2013	29-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013
GRO by GC-FID (S)	24-May-2013	28-May-2013	28-May-2013	29-May-2013	29-May-2013	29-May-2013	28-May-2013	29-May-2013	28-May-2013	29-May-2013
Metals in solid samples by OES	28-May-2013	28-May-2013	28-May-2013	24-May-2013	24-May-2013	28-May-2013	28-May-2013	24-May-2013	28-May-2013	24-May-2013
pH	28-May-2013	28-May-2013	28-May-2013	28-May-2013	24-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013	28-May-2013
Sample description	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013
Semi Volatile Organic Compounds	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013
Total Organic Carbon	28-May-2013						28-May-2013		28-May-2013	
Total Organic Carbon (Asb)		04-Jun-2013	29-May-2013	04-Jun-2013	29-May-2013	04-Jun-2013		04-Jun-2013		04-Jun-2013
TPH CWG GC (S)	28-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	29-May-2013	28-May-2013	29-May-2013	28-May-2013	29-May-2013
VOC MS (S)	29-May-2013	30-May-2013	29-May-2013	31-May-2013	31-May-2013	31-May-2013	30-May-2013	30-May-2013	29-May-2013	30-May-2013

CERTIFICATE OF ANALYSIS

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Lab Sample No(s)	7436450	7436447	7436448	7436445
Customer Sample Ref.	CHVTP020	CHVTP021	CHVTP021	CHVTP022
AGS Ref.				
Depth	1.50	0.45	1.00	1.10
Type	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		03-Jun-2013		03-Jun-2013
EPH CWG (Aliphatic) GC (S)	28-May-2013	29-May-2013	28-May-2013	28-May-2013
EPH CWG (Aromatic) GC (S)	28-May-2013	29-May-2013	28-May-2013	28-May-2013
GRO by GC-FID (S)	28-May-2013	25-May-2013	29-May-2013	24-May-2013
Metals in solid samples by OES	24-May-2013	28-May-2013	28-May-2013	28-May-2013
pH	28-May-2013	28-May-2013	24-May-2013	28-May-2013
Sample description	21-May-2013	21-May-2013	21-May-2013	21-May-2013
Semi Volatile Organic Compounds	29-May-2013	29-May-2013	29-May-2013	29-May-2013
Total Organic Carbon	28-May-2013		28-May-2013	04-Jun-2013
Total Organic Carbon (Asb)		04-Jun-2013		
TPH CWG GC (S)	28-May-2013	29-May-2013	29-May-2013	28-May-2013
VOC MS (S)	29-May-2013	29-May-2013	29-May-2013	29-May-2013

SDG:	130518-63	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0414
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228804
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227407

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	13 June 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130522-21
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	228728

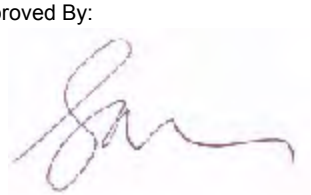
This report has been revised and directly supersedes 227586 in its entirety.

We received 12 samples on Wednesday May 22, 2013 and 10 of these samples were scheduled for analysis which was completed on Thursday June 13, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7452635	CAEMTP0025		0.40	21/05/2013
7452646	CAEMTP0026		0.40	21/05/2013
7452641	CAV122		0.40	21/05/2013
7452638	CAV125		0.40	21/05/2013
7452643	CAV127		0.30	21/05/2013
7452645	CAV130		0.40	21/05/2013
7452634	CAV131		0.20	21/05/2013
7452640	CAV132		0.20	21/05/2013
7452642	CAV132		1.40	21/05/2013
7452637	CAV132		2.00	21/05/2013
7452648	CAV133		0.20	21/05/2013
7452639	CAV133		2.00	21/05/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)	7452635	7452646	7452641	7452638	7452643	7452645	7452640	7452642	7452648	7452639
Customer Sample Reference	CAEMTP0025	CAEMTP0026	CAV122	CAV125	CAV127	CAV130	CAV132	CAV132	CAV133	CAV133
AGS Reference										
Depth (m)	0.40	0.40	0.40	0.40	0.30	0.40	0.20	1.40	0.20	2.00
Container	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	250g Amber Jar (AL	60g VOC (ALE215)	250g Amber Jar (AL	60g VOC (ALE215)
Asbestos ID in Solid Samples	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	X	X	X	X	X	X	N		X	
EPH CWG (Aliphatic) GC (S)							X	X	X	X
EPH CWG (Aromatic) GC (S)							X	X	X	X
GRO by GC-FID (S)							X	X	X	X
Metals in solid samples by OES							X	X	X	X
Sample description							X	X	X	X
Semi Volatile Organic Compounds							X	X	X	X
Total Organic Carbon							N	N	N	N
Total Organic Carbon (Asb)							X	X	X	X
TPH CWG GC (S)							X	X	X	X
VOC MS (S)							X	X	X	X

Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 10
Asbestos Quantification - Full	All	NDPs: 1 Tests: 7
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 4
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 4
GRO by GC-FID (S)	All	NDPs: 0 Tests: 4
Metals in solid samples by OES	All	NDPs: 0 Tests: 4
Sample description	All	NDPs: 0 Tests: 4
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 4
Total Organic Carbon	All	NDPs: 4 Tests: 0
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 4
TPH CWG GC (S)	All	NDPs: 0 Tests: 4
VOC MS (S)	All	NDPs: 0 Tests: 4

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7452640	CAV132	0.20	Dark Brown	Sand	0.1 - 2 mm	Stones	Brick
7452642	CAV132	1.40	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7452639	CAV133	2.00	Black	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7452648	CAV133	0.20	Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV132	CAV132	CAV133	CAV133		
			Depth (m)	0.20	1.40	0.20	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
			Sample Time	.	.	.	.		
			Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
			SDG Ref	130522-21	130522-21	130522-21	130522-21		
			Lab Sample No.(s)	7452640	7452642	7452648	7452639		
			AGS Reference						
Arsenic	<0.6 mg/kg	TM181		16.3 M	50.3 M	18.9 M	29.1 M		
Cadmium	<0.02 mg/kg	TM181		0.557 M	1.54 M	1.56 M	1.66 M		
Chromium	<0.9 mg/kg	TM181		13.4 M	18.1 M	14.3 M	40.1 M		
Copper	<1.4 mg/kg	TM181		32.2 M	166 M	268 M	150 M		
Lead	<0.7 mg/kg	TM181		211 M	402 M	197 M	250 M		
Mercury	<0.14 mg/kg	TM181		0.505 M	1.51 M	0.523 M	0.168 M		
Nickel	<0.2 mg/kg	TM181		14.5 M	24.9 M	10.5 M	38.1 M		
Selenium	<1 mg/kg	TM181		<1 #	2.45 #	<1 #	1.33 #		
Zinc	<1.9 mg/kg	TM181		153 M	319 M	1130 M	240 M		
Soil Organic Matter (SOM)	<0.1 %	TM321		0.741	1.99	1.42	4.03		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV132	CAV132	CAV133	CAV133		
			Depth (m)	0.20	1.40	0.20	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
			Sample Time	.	.	.	.		
			Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
			SDG Ref	130522-21	130522-21	130522-21	130522-21		
			Lab Sample No.(s)	7452640	7452642	7452648	7452639		
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<1000	<100		
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<1000	<100		
Isophorone	<100 µg/kg	TM157		<100	<100	<1000	<100		
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<1000	<100		
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<1000	<100		
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<1000	<100		
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<1000	<100		
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<1000	<100		
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<1000	<100		
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<1000	<100		
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<1000	<100		
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<1000	148		
Carbazole	<100 µg/kg	TM157		<100	<100	<1000	<100		
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<1000	<100		
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		548	<100	<1000	<100		
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<1000	<100		
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<1000	<100		
Azobenzene	<100 µg/kg	TM157		<100	<100	<1000	<100		
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<1000	<100		
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<1000	<100		
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<1000	<100		
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<1000	<100		
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<1000	<100		
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<1000	<100		
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<1000	<100		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV132	CAV132	CAV133	CAV133		
			Depth (m)	0.20	1.40	0.20	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
			Sample Time	.	.	.	.		
			Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
			SDG Ref	130522-21	130522-21	130522-21	130522-21		
			Lab Sample No.(s)	7452640	7452642	7452648	7452639		
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<1000	<100		
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<1000	<100		
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<1000	<100		
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<1000	<100		
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<1000	<100		
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<1000	<100		
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<1000	<100		
2-Methylnaphthalene	<100 µg/kg	TM157		149	241	<1000	3400		
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<1000	<100		
Acenaphthene	<100 µg/kg	TM157		<100	<100	<1000	144		
Anthracene	<100 µg/kg	TM157		155	330	<1000	<100		
Benzo(a)anthracene	<100 µg/kg	TM157		747	1770	<1000	160		
Benzo(b)fluoranthene	<100 µg/kg	TM157		899	1740	1190	149		
Benzo(k)fluoranthene	<100 µg/kg	TM157		682	1620	<1000	<100		
Benzo(a)pyrene	<100 µg/kg	TM157		923	2150	1390	152		
Benzo(g,h,i)perylene	<100 µg/kg	TM157		672	1230	<1000	<100		
Chrysene	<100 µg/kg	TM157		941	1870	1260	206		
Fluoranthene	<100 µg/kg	TM157		992	2300	1570	272		
Fluorene	<100 µg/kg	TM157		<100	<100	<1000	331		
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		615	1190	<1000	<100		
Phenanthrene	<100 µg/kg	TM157		468	1050	<1000	668		
Pyrene	<100 µg/kg	TM157		949	1960	1360	341		
Naphthalene	<100 µg/kg	TM157		<100	161	<1000	1120		
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		196	356	<1000	<100		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

TPH CWG (S)

Results Legend		Customer Sample R	CAV132	CAV132	CAV133	CAV133		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.20	1.40	0.20	2.00		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
		SDG Ref	130522-21	130522-21	130522-21	130522-21		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7452640	7452642	7452648	7452639		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	56	42	38	345		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	229 M	2360 M	291 M	5180000 3 M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 M	<5 M	<5 M	<100 M		
Benzene	<10 µg/kg	TM089	<10 M	<10 M	<10 M	6730 M		
Toluene	<2 µg/kg	TM089	8.66 M	2.28 M	6.43 M	<40 M		
Ethylbenzene	<3 µg/kg	TM089	3.25 M	<3 M	<3 M	<60 M		
m,p-Xylene	<6 µg/kg	TM089	13 M	<6 M	<6 M	<120 M		
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	<60 M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089	13	<9	<9	<9		
sum of detected BTEX by GC	<24 µg/kg	TM089	24.9	<24	<24	6730		
Aliphatics >C5-C6	<10 µg/kg	TM089	10.8	17.1	11.8	578000		
Aliphatics >C6-C8	<10 µg/kg	TM089	60.6	130	73.9	2690000		
Aliphatics >C8-C10	<10 µg/kg	TM089	42.2	506	53.6	827000		
Aliphatics >C10-C12	<10 µg/kg	TM089	34.6	820	61	313000		
Aliphatics >C12-C16	<100 µg/kg	TM173	16300	36900	20800	305000		
Aliphatics >C16-C21	<100 µg/kg	TM173	63100	109000	66700	83500		
Aliphatics >C21-C35	<100 µg/kg	TM173	228000	884000	348000	70400		
Aliphatics >C35-C44	<100 µg/kg	TM173	123000	146000	268000	10300		
Total Aliphatics >C12-C44	<100 µg/kg	TM173	431000	1180000	704000	470000		
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	6730		
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<200		
Aromatics >EC8-EC10	<10 µg/kg	TM089	44.4	337	42.8	552000		
Aromatics >EC10-EC12	<10 µg/kg	TM089	23.8	546	40.7	209000		
Aromatics >EC12-EC16	<100 µg/kg	TM173	9920	14200	7280	158000		
Aromatics >EC16-EC21	<100 µg/kg	TM173	48800	43200	38300	88500		
Aromatics >EC21-EC35	<100 µg/kg	TM173	254000	242000	401000	92500		
Aromatics >EC35-EC44	<100 µg/kg	TM173	208000	91700	436000	44900		
Aromatics >EC40-EC44	<100 µg/kg	TM173	99100	36300	198000	20400		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	520000	391000	882000	384000		
Total Aliphatics >C5-35	<100 µg/kg	TM173	308000	1030000	436000	4870000		
Total Aromatics >C5-35	<100 µg/kg	TM173	313000	300000	446000	1110000		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	621000	1330000	882000	5980000		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

TPH CWG (S)

Results Legend		Customer Sample R	CAV132	CAV132	CAV133	CAV133		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.20	1.40	0.20	2.00		
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
*	Subcontracted test.	Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.		
		Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
		SDG Ref	130522-21	130522-21	130522-21	130522-21		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7452640	7452642	7452648	7452639		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	952000	1570000	1590000	6030000		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV132	CAV132	CAV133	CAV133		
			Depth (m)	0.20	1.40	0.20	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
			Sample Time	.	.	.	.		
			Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
			SDG Ref	130522-21	130522-21	130522-21	130522-21		
			Lab Sample No.(s)	7452640	7452642	7452648	7452639		
			AGS Reference						
Dibromofluoromethane**	%	TM116		108	106	106	106		
Toluene-d8**	%	TM116		99.7	99.4	99.4	102		
4-Bromofluorobenzene**	%	TM116		109	106	103	106		
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M		
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140		
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200		
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M		
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M		
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #		
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M	257 M		
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M		
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M		
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M		
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M		
Trichloroethene	<9 µg/kg	TM116		<180 M	549 M	<180 M	247 M		
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M		
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M		
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Toluene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<280		
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV132	CAV132	CAV133	CAV133		
			Depth (m)	0.20	1.40	0.20	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
			Sample Time	.	.	.	.		
			Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
			SDG Ref	130522-21	130522-21	130522-21	130522-21		
			Lab Sample No.(s)	7452640	7452642	7452648	7452639		
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #		
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M		
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<80 M	2100 M		
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	6520 #		
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	2060 M		
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #		
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<340 M		
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	3700 M		
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M		
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	2060 #		
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #		
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #	7700 #		
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	1480 M		
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	579 M		
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M		
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300		
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #		
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240		
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M	943 M		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

VOC MS (S)

Results Legend		Customer Sample R	CAV132	CAV132	CAV133	CAV133		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.20	1.40	0.20	2.00		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	21/05/2013	21/05/2013	21/05/2013	21/05/2013		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	22/05/2013	22/05/2013	22/05/2013	22/05/2013		
		SDG Ref	130522-21	130522-21	130522-21	130522-21		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7452640	7452642	7452648	7452639		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<120 M	<120 M	<120 M		

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAEMTP0025 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452635 TM048	04/06/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAEMTP0026 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452646 TM048	04/06/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV122 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452641 TM048	04/06/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV125 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452638 TM048	04/06/13	Martin Cotterell	Loose fibres in soi	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV127 0.30 SOLID 21/05/2013 00:00:00 130522-21 7452643 TM048	04/06/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV130 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452645 TM048	04/06/13	Martin Cotterell	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV132 0.20 SOLID 21/05/2013 00:00:00 130522-21 7452640 TM048	03/06/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV132 1.40 SOLID 21/05/2013 00:00:00 130522-21 7452642 TM048	03/06/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV133 0.20 SOLID 21/05/2013 00:00:00 130522-21 7452648 TM048	03/06/13	Chris Swindells	Loose fibres in soil	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV133 2.00 SOLID 21/05/2013 00:00:00 130522-21 7452639 TM048	03/06/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAEMTP0025 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452635 TM 304	None (#)	N/C	0.0015 (#)	<0.001 (#)	0.0016 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAEMTP0026 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452646 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV122 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452641 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV125 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452638 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV127 0.30 SOLID 21/05/2013 00:00:00 130522-21 7452643 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV130 0.40 SOLID 21/05/2013 00:00:00 130522-21 7452645 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV133 0.20 SOLID 21/05/2013 00:00:00 130522-21 7452648 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Notification of NDPs (No determination possible)

Date Received : 22/05/2013 09:18:56

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
7452642	CAV132	1.40	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7452648	CAV133	0.20	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7452640	CAV132	0.20	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7452640	CAV132	0.20	Asbestos Quantification - Full	Insufficient Sample
7452639	CAV133	2.00	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Test Completion Dates

Lab Sample No(s)	7452635	7452646	7452641	7452638	7452643	7452645	7452640	7452642	7452639	7452648
Customer Sample Ref.	CAEMTP0025	CAEMTP0026	CAV122	CAV125	CAV127	CAV130	CAV132	CAV132	CAV133	CAV133
AGS Ref.										
Depth	0.40	0.40	0.40	0.40	0.30	0.40	0.20	1.40	2.00	0.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013
Asbestos Quantification - Full	04-Jun-2013	04-Jun-2013	04-Jun-2013	05-Jun-2013	05-Jun-2013	04-Jun-2013				13-Jun-2013
EPH CWG (Aliphatic) GC (S)							30-May-2013	30-May-2013	30-May-2013	30-May-2013
EPH CWG (Aromatic) GC (S)							30-May-2013	30-May-2013	30-May-2013	30-May-2013
GRO by GC-FID (S)							31-May-2013	31-May-2013	31-May-2013	31-May-2013
Metals in solid samples by OES							29-May-2013	28-May-2013	29-May-2013	28-May-2013
Sample description							23-May-2013	23-May-2013	23-May-2013	23-May-2013
Semi Volatile Organic Compounds							31-May-2013	31-May-2013	30-May-2013	30-May-2013
Total Organic Carbon (Asb)							04-Jun-2013	04-Jun-2013	04-Jun-2013	04-Jun-2013
TPH CWG GC (S)							31-May-2013	31-May-2013	31-May-2013	31-May-2013
VOC MS (S)							31-May-2013	31-May-2013	31-May-2013	31-May-2013

SDG:	130522-21	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0418
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	228728
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	227586

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
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Suite 24
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Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	23 July 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130613-47
Your Reference:	CA Remediation
Location:	Coed Darcy
Report No:	234379

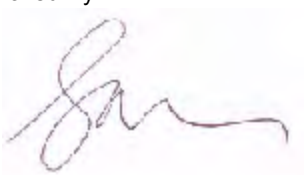
This report has been revised and directly supersedes 233821 in its entirety.

We received 38 samples on Thursday June 13, 2013 and 38 of these samples were scheduled for analysis which was completed on Tuesday July 23, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan
Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7802137	CAV09 1		0.50	11/06/2013
7578740	CAV09 2		0.50	11/06/2013
7578742	CAV09 3		0.50	11/06/2013
7578789	CAV134		0.70	11/06/2013
7578791	CAV134		2.10	11/06/2013
7578792	CAV135		0.50	11/06/2013
7578795	CAV135		2.40	11/06/2013
7578769	CAV34 1		0.50	11/06/2013
7578771	CAV34 2		0.50	11/06/2013
7578772	CAV34 3		0.50	11/06/2013
7578753	CAV40 1		0.50	11/06/2013
7578755	CAV40 2		0.50	11/06/2013
7578757	CAV40 3		0.50	11/06/2013
7578724	CAV101 1		0.50	11/06/2013
7578727	CAV101 2		0.50	11/06/2013
7578728	CAV101 3		0.50	11/06/2013
7578748	CAV09 E		0.30	11/06/2013
7578777	CAV34 E		0.30	11/06/2013
7578767	CAV40 E		0.30	11/06/2013
7578731	CAV101 E		0.30	11/06/2013
7578743	CAV09 N		0.30	11/06/2013
7578774	CAV34 N		0.30	11/06/2013
7578759	CAV40 N		0.30	11/06/2013
7578729	CAV101 N		0.30	11/06/2013
7578747	CAV09 S		0.30	11/06/2013
7578776	CAV34 S		0.30	11/06/2013
7578765	CAV40 S		0.30	11/06/2013
7578730	CAV101 S		0.30	11/06/2013
7578751	CAV09 W		0.30	11/06/2013
7578779	CAV34 W		0.30	11/06/2013
7578768	CAV40 W		0.30	11/06/2013
7578732	CAV101 W		0.30	11/06/2013
7578780	CHVTP 1		0.70	11/06/2013
7578782	CHVTP 1		2.50	11/06/2013
7578783	CHVTP 2		0.50	11/06/2013
7578785	CHVTP 2		2.80	11/06/2013
7578786	CHVTP 3		0.70	11/06/2013
7578788	CHVTP 3		2.50	11/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			7802137	7578740	7578742			7578789			7578791			7578792			7578795	7578769	7578771	7578772	7578753	7578755	7578757	7578724	7578727	7578728	7578748	7578777	7578767	7578731	7578743	7578774	7578759	7578729	7578747	7578776	7578765	7578730	7578751	7578779	7578768	7578732
Customer Sample Reference			CAV09 1	CAV09 2	CAV09 3			CAV134			CAV134			CAV135			CAV135	CAV34 1	CAV34 2	CAV34 3	CAV40 1	CAV40 2	CAV40 3	CAV101 1	CAV101 2	CAV101 3	CAV09 E	CAV34 E	CAV40 E	CAV101 E	CAV09 N	CAV34 N	CAV40 N	CAV101 N	CAV09 S	CAV34 S	CAV40 S	CAV101 S	CAV09 W	CAV34 W	CAV40 W	CAV101 W
AGS Reference																																										
Depth (m)			0.50	0.50	0.50			0.70			2.10			0.50			2.40	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Container			400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 38	X	X	X		X			X			X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 24	X		X								X					X		X	X		X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 10				X			X			X			X																											
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 10				X			X			X			X																											
GRO by GC-FID (S)	All	NDPs: 0 Tests: 10						X			X			X			X																									
Metals in solid samples by OES	All	NDPs: 0 Tests: 10				X			X			X			X																											
pH	All	NDPs: 0 Tests: 10					X			X			X			X																										
Sample description	All	NDPs: 0 Tests: 10				X			X			X			X																											
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 10				X			X			X			X																											
Total Organic Carbon	All	NDPs: 9 Tests: 1				N			N			N			N																											
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 9				X			X			X			X																											
TPH CWG GC (S)	All	NDPs: 0 Tests: 10				X			X			X			X																											
VOC MS (S)	All	NDPs: 0 Tests: 10						X			X			X			X																									

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

SOLID

Results Legend

X **Test**

N **No Determination Possible**

Lab Sample No(s)	7578780	7578782	7578783	7578785	7578786	7578788
Customer Sample Reference	CHVTP 1	CHVTP 1	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3
AGS Reference						
Depth (m)	0.70	2.50	0.50	2.80	0.70	2.50
Container	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 38		X		X		X		X		X		X		X		X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 24						X										
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 10	X		X		X		X		X		X		X		X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 10	X		X		X		X		X		X		X		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 10		X		X		X		X		X		X		X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 10	X		X		X		X		X		X		X		X	
pH	All	NDPs: 0 Tests: 10		X		X		X		X		X		X		X		X
Sample description	All	NDPs: 0 Tests: 10	X		X		X		X		X		X		X		X	
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 10	X		X		X		X		X		X		X		X	
Total Organic Carbon	All	NDPs: 9 Tests: 1	N		N		N		X		N		N					
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 9	X		X		X				X		X					
TPH CWG GC (S)	All	NDPs: 0 Tests: 10	X		X		X		X		X		X		X		X	
VOC MS (S)	All	NDPs: 0 Tests: 10		X		X		X		X		X		X		X		X

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7578789	CAV134	0.70	Beige	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
7578791	CAV134	2.10	Beige	Sandy Silt Loam	0.1 - 2 mm	Oil/Petroleum	Stones
7578792	CAV135	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7578795	CAV135	2.40	Beige	Sandy Silt Loam	0.1 - 2 mm	Oil/Petroleum	Stones
7578780	CHVTP 1	0.70	Dark Brown	Loamy Sand	0.1 - 2 mm	N/A	Stones
7578782	CHVTP 1	2.50	Beige	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	None
7578783	CHVTP 2	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Crushed Brick	Stones
7578785	CHVTP 2	2.80	Beige	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
7578786	CHVTP 3	0.70	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	None
7578788	CHVTP 3	2.50	Beige	Loamy Sand	0.1 - 2 mm	Brick	N/A

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CHVTP 1	CHVTP 1
			Depth (m)	0.70	2.10	0.50	2.40	0.70	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013
			SDG Ref	130613-47	130613-47	130613-47	130613-47	130613-47	130613-47
			Lab Sample No.(s)	7578789	7578791	7578792	7578795	7578780	7578782
			AGS Reference						
pH	1 pH Units	TM133		7.3 M	7.36 M	9.34 M	7.71 M	9.41 M	7.73 M
Arsenic	<0.6 mg/kg	TM181		31.1 M	23.3 M	35.2 M	41.2 M	17.8 M	11.7 M
Cadmium	<0.02 mg/kg	TM181		0.719 M	0.303 M	0.478 M	0.927 M	0.249 M	0.0465 M
Chromium	<0.9 mg/kg	TM181		17.5 M	15.1 M	42.7 M	25.9 M	17.6 M	17 M
Copper	<1.4 mg/kg	TM181		127 M	74.9 M	81.5 M	130 M	35 M	19.4 M
Lead	<0.7 mg/kg	TM181		77 M	121 M	235 M	244 M	88.3 M	33.6 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.146 M	<0.14 M	0.332 M	0.497 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		33.1 M	28.1 M	19.6 M	28.1 M	15.7 M	22.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.01 #	1.22 #	<1 #
Zinc	<1.9 mg/kg	TM181		234 M	209 M	82.5 M	59.8 M	305 M	65.4 M
Soil Organic Matter (SOM)	<0.1 %	TM321		3.1	2.22	2.56	5.77	1.84	2.37

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
			Depth (m)	0.50	2.80	0.70	2.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
			Sample Time	.	.	.	.		
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
			SDG Ref	130613-47	130613-47	130613-47	130613-47		
			Lab Sample No.(s)	7578783	7578785	7578786	7578788		
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132			1.72 #				
pH	1 pH Units	TM133		8.66 M	4.11 M	8.41 M	5.13 M		
Arsenic	<0.6 mg/kg	TM181		19.2 M	7.81 M	18.1 M	39 M		
Cadmium	<0.02 mg/kg	TM181		0.46 M	0.0399 M	0.131 M	0.901 M		
Chromium	<0.9 mg/kg	TM181		16.4 M	13 M	15.4 M	17.2 M		
Copper	<1.4 mg/kg	TM181		54.4 M	13.5 M	15.6 M	101 M		
Lead	<0.7 mg/kg	TM181		90.1 M	17.6 M	19.1 M	421 M		
Mercury	<0.14 mg/kg	TM181		0.389 M	<0.14 M	<0.14 M	1.1 M		
Nickel	<0.2 mg/kg	TM181		30.3 M	24.9 M	18.7 M	27.7 M		
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #		
Zinc	<1.9 mg/kg	TM181		241 M	71.4 M	48.3 M	900 M		
Soil Organic Matter (SOM)	<0.1 %	TM321		1.93		1.2	2.82		

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CHVTP 1	CHVTP 1
			Depth (m)	0.70	2.10	0.50	2.40	0.70	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013
			SDG Ref	130613-47	130613-47	130613-47	130613-47	130613-47	130613-47
			Lab Sample No.(s)	7578789	7578791	7578792	7578795	7578780	7578782
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		242	427	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CHVTP 1	CHVTP 1
			Depth (m)	0.70	2.10	0.50	2.40	0.70	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013
			SDG Ref	130613-47	130613-47	130613-47	130613-47	130613-47	130613-47
			Lab Sample No.(s)	7578789	7578791	7578792	7578795	7578780	7578782
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		297	521	<100	539	263	<100
Acenaphthylene	<100 µg/kg	TM157		120	144	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		299	707	163	<100	<100	<100
Anthracene	<100 µg/kg	TM157		273	528	238	146	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		279	381	1110	503	208	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		217	267	1180	553	233	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		155	199	938	424	157	<100
Benzo(a)pyrene	<100 µg/kg	TM157		201	279	1300	501	211	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		132	173	813	327	154	<100
Chrysene	<100 µg/kg	TM157		445	523	1260	682	435	<100
Fluoranthene	<100 µg/kg	TM157		512	673	1770	949	271	<100
Fluorene	<100 µg/kg	TM157		682	1200	115	153	155	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		120	162	726	312	139	<100
Phenanthrene	<100 µg/kg	TM157		1480	1840	995	800	528	<100
Pyrene	<100 µg/kg	TM157		1430	1650	1590	1030	359	<100
Naphthalene	<100 µg/kg	TM157		261	339	<100	370	167	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	198	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
			Depth (m)	0.50	2.80	0.70	2.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
			Sample Time	.	.	.	.		
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
			SDG Ref	130613-47	130613-47	130613-47	130613-47		
			Lab Sample No.(s)	7578783	7578785	7578786	7578788		
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100		
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100		
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100		
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100		
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		799	<100	<100	332		
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100		
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
			Depth (m)	0.50	2.80	0.70	2.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
			Sample Time	.	.	.	.		
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
			SDG Ref	130613-47	130613-47	130613-47	130613-47		
			Lab Sample No.(s)	7578783	7578785	7578786	7578788		
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	226	<100	<100		
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Methylnaphthalene	<100 µg/kg	TM157		200	<100	<100	181		
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100		
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100		
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100		
Benzo(a)anthracene	<100 µg/kg	TM157		257	<100	<100	209		
Benzo(b)fluoranthene	<100 µg/kg	TM157		279	<100	<100	279		
Benzo(k)fluoranthene	<100 µg/kg	TM157		174	<100	<100	179		
Benzo(a)pyrene	<100 µg/kg	TM157		238	<100	<100	227		
Benzo(g,h,i)perylene	<100 µg/kg	TM157		160	<100	<100	168		
Chrysene	<100 µg/kg	TM157		464	<100	<100	294		
Fluoranthene	<100 µg/kg	TM157		317	<100	<100	281		
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100		
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		141	<100	<100	144		
Phenanthrene	<100 µg/kg	TM157		364	<100	<100	251		
Pyrene	<100 µg/kg	TM157		496	<100	<100	278		
Naphthalene	<100 µg/kg	TM157		125	<100	<100	151		
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100		

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CHVTP 1	CHVTP 1
			Depth (m)	0.70	2.10	0.50	2.40	0.70	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013
			SDG Ref	130613-47	130613-47	130613-47	130613-47	130613-47	130613-47
			Lab Sample No.(s)	7578789	7578791	7578792	7578795	7578780	7578782
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		51	68	54	45	88	90
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		25300 M	25200 M	623 M	21900 M	8520 M	2880 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	<5 M	<5 M	<5 M	<5 M
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M	3.33 M	<2 M	<2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	3.33 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		17.6	21.9	13.3	14.3	36.6	37.5
Aliphatics >C6-C8	<10 µg/kg	TM089		780	1080	61.1	227	309	398
Aliphatics >C8-C10	<10 µg/kg	TM089		5820	5420	101	2920	1490	460
Aliphatics >C10-C12	<10 µg/kg	TM089		8900	9040	213	10000	3410	1000
Aliphatics >C12-C16	<100 µg/kg	TM173		278000	336000	28900	702000	183000	65000
Aliphatics >C16-C21	<100 µg/kg	TM173		411000	443000	49700	1470000	455000	41200
Aliphatics >C21-C35	<100 µg/kg	TM173		1840000	844000	164000	2500000	779000	49000
Aliphatics >C35-C44	<100 µg/kg	TM173		576000	225000	99800	741000	138000	8410
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3100000	1850000	342000	5410000	1550000	164000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		3880	3610	75.5	1950	996	306
Aromatics >EC10-EC12	<10 µg/kg	TM089		5940	6020	142	6700	2270	669
Aromatics >EC12-EC16	<100 µg/kg	TM173		227000	163000	12700	98800	43800	11000
Aromatics >EC16-EC21	<100 µg/kg	TM173		332000	260000	41400	442000	154000	22100
Aromatics >EC21-EC35	<100 µg/kg	TM173		801000	287000	187000	800000	332000	82500
Aromatics >EC35-EC44	<100 µg/kg	TM173		361000	83900	118000	258000	73100	16700
Aromatics >EC40-EC44	<100 µg/kg	TM173		136000	29800	52600	88500	28100	3900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1720000	793000	359000	1600000	603000	132000
Total Aliphatics >C5-35	<100 µg/kg	TM173		2540000	1640000	243000	4680000	1420000	157000
Total Aromatics >C5-35	<100 µg/kg	TM173		1370000	719000	241000	1350000	533000	117000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		3910000	2360000	484000	6030000	1950000	274000

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

TPH CWG (S)

Results Legend		Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CHVTP 1	CHVTP 1
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.70	2.10	0.50	2.40	0.70	2.50
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013
		SDG Ref	130613-47	130613-47	130613-47	130613-47	130613-47	130613-47
(F)	Trigger breach confirmed	Lab Sample No.(s)	7578789	7578791	7578792	7578795	7578780	7578782
1-4&•§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	4850000	2670000	702000	7030000	2170000	299000

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
			Depth (m)	0.50	2.80	0.70	2.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
			Sample Time	.	.	.	.		
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
			SDG Ref	130613-47	130613-47	130613-47	130613-47		
			Lab Sample No.(s)	7578783	7578785	7578786	7578788		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		10	83	4	125		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		5730 M	10900 M	900 M	7320 M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	<5 M	<5 M		
Benzene	<10 µg/kg	TM089		<10 M	12.4 M	<10 M	51.1 M		
Toluene	<2 µg/kg	TM089		4.44 M	<2 M	3.84 M	<2 M		
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	12.2 M		
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M	6.66 M		
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9		
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	63.3		
Aliphatics >C5-C6	<10 µg/kg	TM089		34.4	102	17.9	89.9		
Aliphatics >C6-C8	<10 µg/kg	TM089		147	1090	61.4	501		
Aliphatics >C8-C10	<10 µg/kg	TM089		781	2520	161	1000		
Aliphatics >C10-C12	<10 µg/kg	TM089		2540	3300	314	2990		
Aliphatics >C12-C16	<100 µg/kg	TM173		64600	13800	1780	19500		
Aliphatics >C16-C21	<100 µg/kg	TM173		124000	22400	3330	59100		
Aliphatics >C21-C35	<100 µg/kg	TM173		361000	38500	4830	286000		
Aliphatics >C35-C44	<100 µg/kg	TM173		50900	11200	<100	91600		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		600000	85900	9940	456000		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	12.4	11.5	51.1		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/kg	TM089		524	1680	109	687		
Aromatics >EC10-EC12	<10 µg/kg	TM089		1690	2200	209	2000		
Aromatics >EC12-EC16	<100 µg/kg	TM173		23400	5490	12000	11400		
Aromatics >EC16-EC21	<100 µg/kg	TM173		79300	10900	13900	30200		
Aromatics >EC21-EC35	<100 µg/kg	TM173		245000	30300	34600	203000		
Aromatics >EC35-EC44	<100 µg/kg	TM173		68800	9320	13000	101000		
Aromatics >EC40-EC44	<100 µg/kg	TM173		27100	3360	5920	40300		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		416000	55900	73500	345000		
Total Aliphatics >C5-35	<100 µg/kg	TM173		553000	81700	10500	369000		
Total Aromatics >C5-35	<100 µg/kg	TM173		350000	50500	60800	247000		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		902000	132000	71300	616000		

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

TPH CWG (S)

Results Legend		Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.50	2.80	0.70	2.50		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
		SDG Ref	130613-47	130613-47	130613-47	130613-47		
(F)	Trigger breach confirmed	Lab Sample No.(s)	7578783	7578785	7578786	7578788		
1-4&♦§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1020000	153000	84300	809000		

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CHVTP 1	CHVTP 1
			Depth (m)	0.70	2.10	0.50	2.40	0.70	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013
			SDG Ref	130613-47	130613-47	130613-47	130613-47	130613-47	130613-47
			Lab Sample No.(s)	7578789	7578791	7578792	7578795	7578780	7578782
			AGS Reference						
Dibromofluoromethane**	%	TM116		105 ♦	106 ♦	105 ♦	106	107 ♦	92.8
Toluene-d8**	%	TM116		98.5 ♦	97.4 ♦	95.7 ♦	97.1	97.6 ♦	102
4-Bromofluorobenzene**	%	TM116		108 ♦	103 ♦	119 ♦	107	108 ♦	116
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<8 ♦ M	<80 M	<80 ♦ M	<4 M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<14 ♦	<140	<140 ♦	<7
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<20 ♦	<200	<200 ♦	<10 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<26 ♦ M	<260 M	<260 ♦ M	<13 M
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 M	<280 ♦ M	<14 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<12 ♦ M	<120 M	<120 ♦ M	<6 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<20 ♦ #	<200 #	<200 ♦ #	<10 #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<14 ♦ M	<140 M	<140 ♦ M	56.2 M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	45.1 ♦ #	<200 #	<200 ♦ #	20 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 M	<220 ♦ M	<11 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 M	<220 ♦ M	<11 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<16 ♦ M	<160 M	<160 ♦ M	<8 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 M	<100 ♦ M	<5 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 M	<240 ♦ M	<12 M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 M	<280 ♦ M	<14 M
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<16 ♦ M	<160 M	<160 ♦ M	<8 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<14 ♦ M	<140 M	<140 ♦ M	<7 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 M	<220 ♦ M	<11 M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 M	<280 ♦ M	<14 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 M	<100 ♦ M	<5 M
Benzene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 M	<180 ♦ M	11.3 M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 M	<180 ♦ M	<9 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 M	<240 ♦ M	<12 M
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 M	<180 ♦ M	<9 M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<14 ♦ M	<140 M	<140 ♦ M	<7 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 M	<280 ♦ M	<14 M
Toluene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	15.9 ♦ M	<100 M	<100 ♦ M	<5 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦	<280 ♦	<28 ♦	<280	<280 ♦	<14
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

VOC MS (S)

Results Legend
- **#** ISO17025 accredited.
- **M** *m*CERTS accredited.
- **aq** Aqueous / settled sample.
- **diss.filt** Dissolved / filtered sample.
- **tot.unfilt** Total / unfiltered sample.
- ***** Subcontracted test.
- ****** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- **(F)** Trigger breach confirmed
- **1-4&♦§@** Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CHVTP 1	CHVTP 1
			Depth (m)	0.70	2.10	0.50	2.40	0.70	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013	13/06/2013
			SDG Ref	130613-47	130613-47	130613-47	130613-47	130613-47	130613-47
			Lab Sample No.(s)	7578789	7578791	7578792	7578795	7578780	7578782
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<14 ♦ #	<140 #	<140 ♦ #	<7 #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 M	<100 ♦ M	<5 M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<26 ♦ M	<260 M	<260 ♦ M	<13 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 M	<240 ♦ M	<12 M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 M	<100 ♦ M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<8 ♦ M	<80 M	<80 ♦ M	<4 M
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ #	<28 ♦ #	<280 #	<280 ♦ #	<14 #
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M
Styrene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 M	<100 ♦ M	<5 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<20 ♦ #	<200 #	<200 ♦ #	<10 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<340 ♦ M	<34 ♦ M	<340 M	<340 ♦ M	<17 M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 M	<220 ♦ M	<11 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 M	<180 ♦ M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<16 ♦ #	<160 #	<160 ♦ #	<8 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 M	<240 ♦ M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<24 ♦ #	<240 #	<240 ♦ #	<12 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ #	<18 ♦ #	<180 #	<180 ♦ #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 M	<220 ♦ M	<11 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<12 ♦ M	<120 M	<120 ♦ M	<6 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 M	<100 ♦ M	<5 M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 M	<200 ♦ M	<10 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 M	<240 ♦ M	<12 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 M	<280 ♦ M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<30 ♦	<300	<300 ♦	<15
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<12 ♦ #	<120 #	<120 ♦ #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<24 ♦	<240	<240 ♦	<12
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<26 ♦ M	<260 M	<260 ♦ M	<13 M

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	CAV134	0.70	Soil/Solid	11/06/2013	.	13/06/2013	130613-47	7578789	
										♦ M	
			CAV134	2.10	Soil/Solid	11/06/2013	.	13/06/2013	130613-47	7578791	
										<120	
										♦ M	
			CAV135	0.50	Soil/Solid	11/06/2013	.	13/06/2013	130613-47	7578792	
										<12	
										♦ M	
			CAV135	2.40	Soil/Solid	11/06/2013	.	13/06/2013	130613-47	7578795	
										<120	
										M	
			CHVTP 1	0.70	Soil/Solid	11/06/2013	.	13/06/2013	130613-47	7578780	
										<120	
										♦ M	
			CHVTP 1	2.50	Soil/Solid	11/06/2013	.	13/06/2013	130613-47	7578782	
										<6	
										M	

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
			Depth (m)	0.50	2.80	0.70	2.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
			Sample Time	.	.	.	.		
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
			SDG Ref	130613-47	130613-47	130613-47	130613-47		
			Lab Sample No.(s)	7578783	7578785	7578786	7578788		
			AGS Reference						
Dibromofluoromethane**	%	TM116		104 ♦	85.3	104 ♦	90.2		
Toluene-d8**	%	TM116		96.4 ♦	99.7	97.3 ♦	102		
4-Bromofluorobenzene**	%	TM116		118 ♦	124	124 ♦	109		
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<4 M	<80 ♦ M	<4 M		
Chloromethane	<7 µg/kg	TM116		<140 ♦	<7	<140 ♦	<7		
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<10 ♦	<200 ♦			
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<13 M	<260 ♦ M	<13 M		
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<14 M	<280 ♦ M	<14 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<6 M	<120 ♦ M	<6 M		
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<10 #	<200 ♦ #	<10 #		
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<7 M	<140 ♦ M	<7 M		
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	24.4 #	<200 ♦ #	<10 #		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<11 M	<220 ♦ M	<11 M		
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<11 M	<220 ♦ M	<11 M		
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<8 M	<160 ♦ M	<8 M		
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<5 M	<100 ♦ M	<5 M		
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<12 M	<240 ♦ M	<12 M		
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<14 M	<280 ♦ M	<14 M		
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<8 M	<160 ♦ M	<8 M		
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<7 M	<140 ♦ M	<7 M		
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<11 M	<220 ♦ M	<11 M		
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<14 M	<280 ♦ M	<14 M		
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<5 M	<100 ♦ M	<5 M		
Benzene	<9 µg/kg	TM116		<180 ♦ M	58 M	<180 ♦ M	144 M		
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<9 M	<180 ♦ M	<9 M		
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<12 M	<240 ♦ M	<12 M		
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<9 M	<180 ♦ M	<9 M		
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<7 M	<140 ♦ M	<7 M		
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<14 M	<280 ♦ M	<14 M		
Toluene	<5 µg/kg	TM116		<100 ♦ M	<5 M	<100 ♦ M	18.1 M		
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦	<14	<280 ♦	<14		
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<10 M	<200 ♦ M	<10 M		

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
			Depth (m)	0.50	2.80	0.70	2.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
			Sample Time	.	.	.	.		
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
			SDG Ref	130613-47	130613-47	130613-47	130613-47		
			Lab Sample No.(s)	7578783	7578785	7578786	7578788		
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<7 #	<140 ♦ #	<7 #		
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<5 M	<100 ♦ M	<5 M		
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<13 M	<260 ♦ M	<13 M		
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<12 M	<240 ♦ M	<12 M		
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<5 M	<100 ♦ M	<5 M		
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<10 M	<200 ♦ M	<10 M		
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	21.2 M	<80 ♦ M	30.1 M		
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<14 #	<280 ♦ #	37.8 #		
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	12.2 M	<200 ♦ M	16.4 M		
Styrene	<10 µg/kg	TM116		<200 ♦ M	<10 M	<200 ♦ M	<10 M		
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<10 M	<200 ♦ M	<10 M		
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	23.1 M	<100 ♦ M	8.55 M		
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<10 #	<200 ♦ #	<10 #		
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<17 M	<340 ♦ M	<17 M		
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<10 M	<200 ♦ M	<10 M		
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	20 M	<220 ♦ M	13.9 M		
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<9 M	<180 ♦ M	<9 M		
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	56.3 #	<160 ♦ #	46.2 #		
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<12 M	<240 ♦ M	<12 M		
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<12 #	<240 ♦ #	<12 #		
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	62.7 #	<180 ♦ #	130 #		
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	28 M	<200 ♦ M	<10 M		
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<11 M	<220 ♦ M	<11 M		
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<6 M	<120 ♦ M	<6 M		
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<5 M	<100 ♦ M	<5 M		
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<10 M	<200 ♦ M	<10 M		
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<12 M	<240 ♦ M	<12 M		
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<14 M	<280 ♦ M	<14 M		
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<15	<300 ♦	<15		
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<6 #	<120 ♦ #	<6 #		
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<12	<240 ♦	<12		
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<13 M	<260 ♦ M	<13 M		

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3		
			Depth (m)	0.50	2.80	0.70	2.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	11/06/2013	11/06/2013	11/06/2013	11/06/2013		
			Sample Time	.	.	.	.		
			Date Received	13/06/2013	13/06/2013	13/06/2013	13/06/2013		
			SDG Ref	130613-47	130613-47	130613-47	130613-47		
			Lab Sample No.(s)	7578783	7578785	7578786	7578788		
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<6 M	<120 ♦ M	<6 M		

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7802137 TM048	26/06/13	Paul Fenney	Loose fibres in soil	Trace (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 2 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578740 TM048	26/06/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578742 TM048	26/06/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV134 0.70 SOLID 11/06/2013 00:00:00 130613-47 7578789 TM048	26/06/13	Kevin Bowron	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV134 2.10 SOLID 11/06/2013 00:00:00 130613-47 7578791 TM048	26/06/13	Lauren Sargeant	Soil containing debris typical of Asbestos Cement	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV135 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578792 TM048	26/06/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV135 2.40 SOLID 11/06/2013 00:00:00 130613-47 7578795 TM048	26/06/13	Kevin Bowron	Soil containing loose fibres and ACM debris	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578769 TM048	26/06/13	Kevin Bowron	Soil containing loose fibres and ACM debris	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 2 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578771 TM048	26/06/13	Kevin Bowron	Soil containing loose fibres and debris typical of asbestos lagging	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578772 TM048	26/06/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578753 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 2 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578755 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578757 TM048	26/06/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578724 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Trace (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 2 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578727 TM048	26/06/13	Rhodri Williams	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578728 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578748 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Trace (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578777 TM048	26/06/13	Martin Cotterell	Loose fibres in soil and Soil containing ACM debris	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578767 TM048	26/06/13	Kevin Bowron	Soil containing loose fibres and debris typical of asbestos lagging	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578731 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 N 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578743 TM048	26/06/13	Simon Postlewhite	loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 N 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578774 TM048	26/06/13	Simon Postlewhite	loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 N 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578759 TM048	26/06/13	Kevin Bowron	Soil containing loose fibres and ACM debris	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 N 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578729 TM048	26/06/13	Kevin Bowron	Soil containing loose fibres and material typical of asbestos bitumen	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 S 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578747 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 S 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578776 TM048	26/06/13	Paul Fenney	Loose fibres in soil and Soil containing debris typical of Asbestos Cement	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 S 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578765 TM048	26/06/13	Lauren Sargeant	Loose fibres in soil ans Soil containing ACM debris	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 S 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578730 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578751 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578779 TM048	26/06/13	Kevin Bowron	Soil containing loose fibres and debris typical of asbestos lagging	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578768 TM048	26/06/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578732 TM048	26/06/13	Rhodri Williams	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP 1 0.70 SOLID 11/06/2013 00:00:00 130613-47 7578780 TM048	26/06/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP 1 2.50 SOLID 11/06/2013 00:00:00 130613-47 7578782 TM048	26/06/13	Simon Postlewhite	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP 2 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578783 TM048	26/06/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP 2 2.80 SOLID 11/06/2013 00:00:00 130613-47 7578785 TM048	26/06/13	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP 3 0.70 SOLID 11/06/2013 00:00:00 130613-47 7578786 TM048	26/06/13	Paul Fenney	Loose fibres in soil and Soil containing debris typical of Asbestos Cement	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP 3 2.50 SOLID 11/06/2013 00:00:00 130613-47 7578788 TM048	26/06/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7802137 TM 304	None (#)	N/C	0.0051 (#)	<0.001 (#)	0.0054 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578742 TM 304	None (#)	N/C	0.0018 (#)	<0.001 (#)	0.0019 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV135 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578792 TM 304	Amosite (#)	Loose fibres	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578769 TM 304	None (#)	N/C	0.0145 (#)	<0.001 (#)	0.0149 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578772 TM 304	Amosite (#)	Loose fibres and ACM debris	0.0196 (#)	<0.001 (#)	0.0199 (#)

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578753 TM 304	None (#)	N/C	0.0028 (#)	<0.001 (#)	0.003 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578757 TM 304	Amosite (#)	Loose fibres	<0.001 (#)	<0.001 (#)	0.0011 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 1 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578724 TM 304	Crocidolite (#)	Loose fibres	0.0444 (#)	<0.001 (#)	0.0447 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 3 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578728 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578748 TM 304	Crocidolite (#)	Loose fibres	0.0108 (#)	<0.001 (#)	0.0117 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578777 TM 304	Crocidolite (#)	Loose fibres and ACM debris	0.0159 (#)	<0.001 (#)	0.0166 (#)

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578767 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 E 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578731 TM 304	Chrysotile (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 N 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578743 TM 304	None (#)	n/c	0.0264 (#)	<0.001 (#)	0.0266 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 N 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578759 TM 304	None (#)	N/C	0.0051 (#)	<0.001 (#)	0.0058 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 N 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578729 TM 304	None (#)	N/C	0.0010 (#)	<0.001 (#)	0.0014 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 S 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578747 TM 304	Crocidolite (#)	Loose fibres	0.0051 (#)	<0.001 (#)	0.0059 (#)

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 S 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578776 TM 304	None (#)	N/C	0.2154 (#)	0.0028 (#)	0.2182 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 S 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578765 TM 304	Amosite (#)	Additional component as loose fibres	0.0022 (#)	<0.001 (#)	0.0023 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV09 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578751 TM 304	None (#)	N/C	0.0550 (#)	0.0018 (#)	0.0568 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV34 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578779 TM 304	None (#)	N/C	0.0157 (#)	<0.001 (#)	0.0166 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV40 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578768 TM 304	Amosite and trace Crocidolite (#)	Loose fibres	0.0018 (#)	<0.001 (#)	0.002 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 W 0.30 SOLID 11/06/2013 00:00:00 130613-47 7578732 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG: 130613-47 **Location:** Coed Darcy **Order Number:** CD0433
Job: H_ATKINS_LDC-162 **Customer:** Atkins Global Ltd **Report Number:** 234379
Client Reference: CA Remediation **Attention:** Selina Bamforth **Superseded Report:** 233821

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP 2 0.50 SOLID 11/06/2013 00:00:00 130613-47 7578783 TM 304	Crocidolite (#)	Loose fibres	0.0110 (#)	<0.001 (#)	0.0112 (#)

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Notification of NDPs (No determination possible)

Date Received : 13/06/2013 10:15:47

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
7578780	CHVTP 1	0.70	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578782	CHVTP 1	2.50	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578783	CHVTP 2	0.50	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578786	CHVTP 3	0.70	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578788	CHVTP 3	2.50	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578789	CAV134	0.70	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578791	CAV134	2.10	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578792	CAV135	0.50	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7578795	CAV135	2.40	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Test Completion Dates

Lab Sample No(s)	7578789	7578791	7578792	7578795	7802137	7578740	7578742	7578769	7578771	7578772
Customer Sample Ref.	CAV134	CAV134	CAV135	CAV135	CAV09 1	CAV09 2	CAV09 3	CAV34 1	CAV34 2	CAV34 3
AGS Ref.										
Depth	0.70	2.10	0.50	2.40	0.50	0.50	0.50	0.50	0.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	26-Jun-2013	27-Jun-2013	26-Jun-2013	26-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013
Asbestos Quantification - Full			18-Jul-2013		15-Jul-2013		16-Jul-2013	18-Jul-2013		18-Jul-2013
EPH CWG (Aliphatic) GC (S)	25-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013						
EPH CWG (Aromatic) GC (S)	25-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013						
GRO by GC-FID (S)	25-Jun-2013	25-Jun-2013	25-Jun-2013	25-Jun-2013						
Metals in solid samples by OES	21-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013						
pH	20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013						
Sample description	18-Jun-2013	18-Jun-2013	18-Jun-2013	18-Jun-2013						
Semi Volatile Organic Compounds	23-Jun-2013	23-Jun-2013	24-Jun-2013	23-Jun-2013						
Total Organic Carbon (Asb)	27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013						
TPH CWG GC (S)	25-Jun-2013	25-Jun-2013	26-Jun-2013	25-Jun-2013						
VOC MS (S)	27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013						

Lab Sample No(s)	7578753	7578755	7578757	7578724	7578727	7578728	7578748	7578777	7578767	7578731
Customer Sample Ref.	CAV40 1	CAV40 2	CAV40 3	CAV101 1	CAV101 2	CAV101 3	CAV09 E	CAV34 E	CAV40 E	CAV101 E
AGS Ref.										
Depth	0.50	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	27-Jun-2013	26-Jun-2013	26-Jun-2013
Asbestos Quantification - Full	17-Jul-2013		17-Jul-2013	16-Jul-2013		16-Jul-2013	17-Jul-2013	18-Jul-2013	17-Jul-2013	15-Jul-2013

Lab Sample No(s)	7578743	7578774	7578759	7578729	7578747	7578776	7578765	7578730	7578751	7578779
Customer Sample Ref.	CAV09 N	CAV34 N	CAV40 N	CAV101 N	CAV09 S	CAV34 S	CAV40 S	CAV101 S	CAV09 W	CAV34 W
AGS Ref.										
Depth	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	27-Jun-2013	27-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013
Asbestos Quantification - Full	16-Jul-2013		17-Jul-2013	16-Jul-2013	17-Jul-2013	18-Jul-2013	17-Jul-2013		17-Jul-2013	18-Jul-2013

Lab Sample No(s)	7578768	7578732	7578780	7578782	7578783	7578785	7578786	7578788
Customer Sample Ref.	CAV40 W	CAV101 W	CHVTP 1	CHVTP 1	CHVTP 2	CHVTP 2	CHVTP 3	CHVTP 3
AGS Ref.								
Depth	0.30	0.30	0.70	2.50	0.50	2.80	0.70	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	26-Jun-2013
Asbestos Quantification - Full	18-Jul-2013	16-Jul-2013			18-Jul-2013			
EPH CWG (Aliphatic) GC (S)			24-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013
EPH CWG (Aromatic) GC (S)			24-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013	24-Jun-2013
GRO by GC-FID (S)			25-Jun-2013	25-Jun-2013	25-Jun-2013	25-Jun-2013	25-Jun-2013	25-Jun-2013
Metals in solid samples by OES			24-Jun-2013	24-Jun-2013	21-Jun-2013	24-Jun-2013	21-Jun-2013	24-Jun-2013
pH			20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013
Sample description			18-Jun-2013	18-Jun-2013	18-Jun-2013	18-Jun-2013	18-Jun-2013	18-Jun-2013
Semi Volatile Organic Compounds			23-Jun-2013	23-Jun-2013	23-Jun-2013	23-Jun-2013	23-Jun-2013	23-Jun-2013
Total Organic Carbon						28-Jun-2013		
Total Organic Carbon (Asb)			27-Jun-2013	27-Jun-2013	27-Jun-2013		27-Jun-2013	27-Jun-2013
TPH CWG GC (S)			26-Jun-2013	25-Jun-2013	25-Jun-2013	25-Jun-2013	26-Jun-2013	26-Jun-2013
VOC MS (S)			27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	26-Jun-2013

SDG:	130613-47	**Location:**	Coed Darcy	**Order Number:**	CD0433
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	234379
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	233821

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

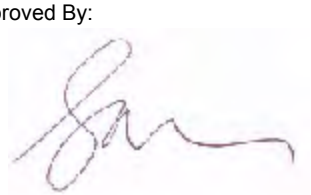
Date:	24 July 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130622-28
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	234646

We received 14 samples on Saturday June 22, 2013 and 14 of these samples were scheduled for analysis which was completed on Wednesday July 24, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7636411	CAV043		0.30	21/06/2013
7636412	CAV044		0.30	21/06/2013
7636393	CAV039 Base 1		0.80	21/06/2013
7636394	CAV039 Base 2		0.80	21/06/2013
7636398	CAV039 E		0.60	21/06/2013
7636395	CAV039 N		0.60	21/06/2013
7636397	CAV039 S		0.60	21/06/2013
7636399	CAV039 W		0.60	21/06/2013
7636403	CHVTP7 Base 1		2.20	21/06/2013
7636405	CHVTP7 Base 2		2.20	21/06/2013
7636408	CHVTP7 E		1.10	21/06/2013
7636406	CHVTP7 N		0.80	21/06/2013
7636407	CHVTP7 S		0.80	21/06/2013
7636410	CHVTP7 W		1.10	21/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

- X — Test
- N — No Determination Possible

Lab Sample No(s)			7636411			7636412			7636393			7636394			7636398			7636395			7636397			7636399			7636403			7636405			7636408			7636406			7636407			7636410
Customer Sample Reference			CAV043			CAV044			CAV039 Base 1			CAV039 Base 2			CAV039 E			CAV039 N			CAV039 S			CAV039 W			CHVTP7 Base 1			CHVTP7 Base 2			CHVTP7 E			CHVTP7 N			CHVTP7 S			CHVTP7 W
AGS Reference																																										
Depth (m)			0.30			0.30			0.80			0.80			0.60			0.60			0.60			0.60			2.20			2.20			1.10			0.80			0.80			1.10
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	1kg TUB	250g Amber Jar (AL	60g VOC (ALE215)	1kg TUB	250g Amber Jar (AL	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 14		X			X			X			X			X			X			X			X		X			X				X			X			X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 6								X			X			X			X			X			X																	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 14	X			X			X			X			X			X			X			X				X			X		X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 14	X			X			X			X			X			X			X			X				X			X		X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 14			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 14	X			X			X			X			X			X			X			X				X			X		X			X			X			X
pH	All	NDPs: 0 Tests: 14		X			X			X			X			X			X			X			X		X			X				X			X			X		
Sample description	All	NDPs: 0 Tests: 14	X			X			X			X			X			X			X			X				X			X		X			X			X			X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 14	X			X			X			X			X			X			X			X				X			X		X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 14	X			X			X			X			X			X			X			X				X			X		X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 14	X			X			X			X			X			X			X			X				X			X		X			X			X			X
VOC MS (S)	All	NDPs: 0 Tests: 14			X			X			X			X			X			X			X			X			X			X			X			X			X	

16:22:22 24/07/2013

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	
			7636410	CHVTP7 W		1.10	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 14					X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 14						X
pH	All	NDPs: 0 Tests: 14					X	
VOC MS (S)	All	NDPs: 0 Tests: 14						X

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7636411	CAV043	0.30	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	Vegetation
7636412	CAV044	0.30	Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Vegetation
7636393	CAV039 Base 1	0.80	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	Vegetation
7636394	CAV039 Base 2	0.80	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	Brick
7636398	CAV039 E	0.60	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
7636395	CAV039 N	0.60	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	Vegetation
7636397	CAV039 S	0.60	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	Vegetation
7636399	CAV039 W	0.60	Dark Brown	Silty Clay Loam	0.1 - 2 mm	Vegetation	Stones
7636403	CHVTP7 Base 1	2.20	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	N/A
7636405	CHVTP7 Base 2	2.20	Grey	Sandy Loam	0.063 - 0.1 mm	Stones	N/A
7636408	CHVTP7 E	1.10	Dark Brown	Silty Clay	0.063 - 0.1 mm	Vegetation	Stones
7636406	CHVTP7 N	0.80	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Coal fragments
7636407	CHVTP7 S	0.80	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
7636410	CHVTP7 W	1.10	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
			Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		8.38 #	10.3 #	10.8 #	6.38 #	5.76 #	3.53 #
pH	1 pH Units	TM133		7.62 M	7.53 M	8.04 M	8.08 M	8.07 M	8.05 M
Arsenic	<0.6 mg/kg	TM181		46.9 M	34.6 M	48.4 M	17 M	20.6 M	20.8 M
Cadmium	<0.02 mg/kg	TM181		0.542 M	0.486 M	1.06 M	0.38 M	0.537 M	0.352 M
Chromium	<0.9 mg/kg	TM181		13.8 M	11.3 M	16.2 M	12 M	13.1 M	14.6 M
Copper	<1.4 mg/kg	TM181		69.8 M	47 M	124 M	48.3 M	54.6 M	57.7 M
Lead	<0.7 mg/kg	TM181		1270 M	32.9 M	277 M	88.5 M	249 M	114 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.195 M	1.21 M	0.596 M	0.593 M	3.7 M
Nickel	<0.2 mg/kg	TM181		21.8 M	18.8 M	31.7 M	27.1 M	25.2 M	31.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		84.7 M	71.2 M	328 M	263 M	577 M	385 M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
			Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		3.07 #	5.69 #	1.17 #	0.822 #	3.1 #	21.6 #
pH	1 pH Units	TM133		7.61 M	8.12 M	6.46 M	6.74 M	5.86 M	8.09 M
Arsenic	<0.6 mg/kg	TM181		23.3 M	26.6 M	15.7 M	9.94 M	47.9 M	8.42 M
Cadmium	<0.02 mg/kg	TM181		0.509 M	0.832 M	0.0984 M	0.0866 M	1.84 M	0.117 M
Chromium	<0.9 mg/kg	TM181		13.5 M	11.5 M	15.6 M	6.15 M	13 M	8.65 M
Copper	<1.4 mg/kg	TM181		56.3 M	83.3 M	3.63 M	2.65 M	98.8 M	27 M
Lead	<0.7 mg/kg	TM181		175 M	466 M	18.4 M	8.77 M	33.6 M	19.2 M
Mercury	<0.14 mg/kg	TM181		3.23 M	4.11 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		22 M	17.7 M	14 M	6.26 M	25.9 M	31.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		478 M	808 M	20.2 M	40.7 M	162 M	76.5 M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP7 S	CHVTP7 W
			Depth (m)	0.80	1.10
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013
			Sample Time	.	.
			Date Received	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28
			Lab Sample No.(s)	7636407	7636410
			AGS Reference		
Soil Organic Matter (SOM)	<0.35 %	TM132		42.6 #	17.9 #
pH	1 pH Units	TM133		7.82 M	8.87 M
Arsenic	<0.6 mg/kg	TM181		49.4 M	13 M
Cadmium	<0.02 mg/kg	TM181		10.6 M	0.139 M
Chromium	<0.9 mg/kg	TM181		15.6 M	8.06 M
Copper	<1.4 mg/kg	TM181		121 M	40.3 M
Lead	<0.7 mg/kg	TM181		471 M	70.4 M
Mercury	<0.14 mg/kg	TM181		0.204 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		68.8 M	31.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		1510 M	172 M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
			Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	180
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	249	437	1510	180
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
			Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	320	216	256	638
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	130
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	156	253
Benzo(a)anthracene	<100 µg/kg	TM157		220	<100	266	288	671	1470
Benzo(b)fluoranthene	<100 µg/kg	TM157		189	<100	293	296	860	1470
Benzo(k)fluoranthene	<100 µg/kg	TM157		215	<100	238	261	538	1350
Benzo(a)pyrene	<100 µg/kg	TM157		332	<100	283	324	557	2160
Benzo(g,h,i)perylene	<100 µg/kg	TM157		189	<100	226	206	405	1140
Chrysene	<100 µg/kg	TM157		230	<100	438	414	2040	2260
Fluoranthene	<100 µg/kg	TM157		294	130	424	517	1140	2060
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	224	149
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		172	<100	190	171	361	967
Phenanthrene	<100 µg/kg	TM157		226	140	452	367	1010	1450
Pyrene	<100 µg/kg	TM157		273	129	574	522	1400	2910
Naphthalene	<100 µg/kg	TM157		<100	<100	207	134	173	317
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	149	321

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
			Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		315	<100	<100	<100	<100	870
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
			Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		391	235	<100	<100	140	109
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		134	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		458	297	<100	<100	<100	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		429	576	<100	<100	<100	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		361	380	<100	<100	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		437	571	<100	<100	<100	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		298	351	<100	<100	<100	<100
Chrysene	<100 µg/kg	TM157		661	452	<100	<100	<100	<100
Fluoranthene	<100 µg/kg	TM157		768	481	<100	<100	<100	<100
Fluorene	<100 µg/kg	TM157		140	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		254	339	<100	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		674	272	<100	<100	<100	217
Pyrene	<100 µg/kg	TM157		901	486	<100	<100	<100	<100
Naphthalene	<100 µg/kg	TM157		249	204	<100	<100	128	123
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP7 S	CHVTP7 W				
			Depth (m)	0.80	1.10				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	21/06/2013	21/06/2013				
			Sample Time	.	.				
			Date Received	22/06/2013	22/06/2013				
			SDG Ref	130622-28	130622-28				
			Lab Sample No.(s)	7636407	7636410				
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100				
Pentachlorophenol	<100 µg/kg	TM157		<100	<100				
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100				
Nitrobenzene	<100 µg/kg	TM157		<100	<100				
Isophorone	<100 µg/kg	TM157		<100	<100				
Hexachloroethane	<100 µg/kg	TM157		<100	<100				
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100				
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100				
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100				
Diethyl phthalate	<100 µg/kg	TM157		<100	<100				
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100				
Dibenzofuran	<100 µg/kg	TM157		<100	<100				
Carbazole	<100 µg/kg	TM157		<100	<100				
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100				
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		143	2950				
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100				
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100				
Azobenzene	<100 µg/kg	TM157		<100	<100				
4-Nitrophenol	<100 µg/kg	TM157		<100	<100				
4-Nitroaniline	<100 µg/kg	TM157		<100	<100				
4-Methylphenol	<100 µg/kg	TM157		<100	<100				
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100				
4-Chloroaniline	<100 µg/kg	TM157		<100	<100				
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100				
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100				
3-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Nitrophenol	<100 µg/kg	TM157		<100	<100				
2-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Methylphenol	<100 µg/kg	TM157		<100	<100				
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	CHVTP7 S	CHVTP7 W				
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Depth (m)	0.80	1.10				
		Sample Type	Soil/Solid	Soil/Solid				
		Date Sampled	21/06/2013	21/06/2013				
		Sample Time	.	.				
		Date Received	22/06/2013	22/06/2013				
		SDG Ref	130622-28	130622-28				
(F)	Trigger breach confirmed	Lab Sample No.(s)	7636407	7636410				
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
2-Chlorophenol	<100 µg/kg	TM157	<100	<100				
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100				
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<100				
2,4-Dimethylphenol	<100 µg/kg	TM157	<100	<100				
2,4-Dichlorophenol	<100 µg/kg	TM157	<100	<100				
2,4,6-Trichlorophenol	<100 µg/kg	TM157	<100	<100				
2,4,5-Trichlorophenol	<100 µg/kg	TM157	<100	<100				
1,4-Dichlorobenzene	<100 µg/kg	TM157	<100	<100				
1,3-Dichlorobenzene	<100 µg/kg	TM157	<100	<100				
1,2-Dichlorobenzene	<100 µg/kg	TM157	<100	<100				
2-Chloronaphthalene	<100 µg/kg	TM157	<100	<100				
2-Methylnaphthalene	<100 µg/kg	TM157	189	236				
Acenaphthylene	<100 µg/kg	TM157	<100	<100				
Acenaphthene	<100 µg/kg	TM157	<100	<100				
Anthracene	<100 µg/kg	TM157	<100	<100				
Benzo(a)anthracene	<100 µg/kg	TM157	509	109				
Benzo(b)fluoranthene	<100 µg/kg	TM157	719	200				
Benzo(k)fluoranthene	<100 µg/kg	TM157	508	114				
Benzo(a)pyrene	<100 µg/kg	TM157	668	143				
Benzo(g,h,i)perylene	<100 µg/kg	TM157	407	<100				
Chrysene	<100 µg/kg	TM157	741	223				
Fluoranthene	<100 µg/kg	TM157	867	181				
Fluorene	<100 µg/kg	TM157	<100	<100				
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157	373	<100				
Phenanthrene	<100 µg/kg	TM157	507	283				
Pyrene	<100 µg/kg	TM157	739	173				
Naphthalene	<100 µg/kg	TM157	155	232				
Dibenzo(a,h)anthracene	<100 µg/kg	TM157	<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
			Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		40	49	105	82	15	100
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1520 M	2700 M	180000 M	57200 M	34500 M	80100 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 ♦ M	<50 ♦ M	<25 ♦ M	<5 ♦ M	<50 ♦ M
Benzene	<10 µg/kg	TM089		<10 ♦ M	<10 ♦ M	<100 ♦ M	<50 ♦ M	17.8 ♦ M	<100 ♦ M
Toluene	<2 µg/kg	TM089		<2 ♦ M	<2 ♦ M	<20 ♦ M	<10 ♦ M	<2 ♦ M	<20 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M	<30 ♦ M	<15 ♦ M	<3 ♦ M	<30 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<6 ♦ M	<60 ♦ M	190 ♦ M	<6 ♦ M	<60 ♦ M
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M	<30 ♦ M	<15 ♦ M	<3 ♦ M	<30 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	190	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	190	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		28.3	31.3	2770	5590	780	1420
Aliphatics >C6-C8	<10 µg/kg	TM089		325	655	30600	17900	2790	5700
Aliphatics >C8-C10	<10 µg/kg	TM089		363	714	40500	10200	6900	18500
Aliphatics >C10-C12	<10 µg/kg	TM089		332	493	47600	9910	11700	25300
Aliphatics >C12-C16	<100 µg/kg	TM173		1950	2150	260000	120000	241000	68500
Aliphatics >C16-C21	<100 µg/kg	TM173		5400	9430	247000	214000	256000	82100
Aliphatics >C21-C35	<100 µg/kg	TM173		20600	41800	264000	238000	360000	98600
Aliphatics >C35-C44	<100 µg/kg	TM173		4640	11500	39400	53800	40700	15400
Total Aliphatics >C12-C44	<100 µg/kg	TM173		32600	64800	811000	626000	898000	265000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<100	<50	17.8	<100
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<100	<50	<10	<100
Aromatics >EC8-EC10	<10 µg/kg	TM089		241	476	27000	6980	4600	12300
Aromatics >EC10-EC12	<10 µg/kg	TM089		221	329	31800	6600	7780	16800
Aromatics >EC12-EC16	<100 µg/kg	TM173		3910	4340	81000	36100	57300	27500
Aromatics >EC16-EC21	<100 µg/kg	TM173		7050	8260	141000	119000	134000	47800
Aromatics >EC21-EC35	<100 µg/kg	TM173		50900	64100	330000	260000	277000	104000
Aromatics >EC35-EC44	<100 µg/kg	TM173		14600	19600	104000	111000	59400	43800
Aromatics >EC40-EC44	<100 µg/kg	TM173		3900	5650	40000	46800	23400	17900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		76400	96300	656000	526000	528000	223000
Total Aliphatics >C5-35	<100 µg/kg	TM173		29000	55200	893000	616000	879000	300000
Total Aromatics >C5-35	<100 µg/kg	TM173		62300	77500	610000	429000	481000	209000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		91300	133000	1500000	1040000	1360000	509000

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
		SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
(F)	Trigger breach confirmed	Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	111000	164000	1650000	1210000	1460000	568000

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
			Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		29	24	103	104	52	3
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		50200 M	37400 M	12600 M	11200 M	5030 M	<44 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 ♦ M	<5 M	<5 M	<5 ♦ M	<5 ♦ M
Benzene	<10 µg/kg	TM089		26.2 ♦ M	19.2 ♦ M	<10 M	<10 M	<10 ♦ M	<10 ♦ M
Toluene	<2 µg/kg	TM089		<2 ♦ M	<2 ♦ M	<2 M	<2 M	<2 ♦ M	<2 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M	<3 M	<3 M	<3 ♦ M	<3 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<6 ♦ M	<6 M	<6 M	<6 ♦ M	<6 ♦ M
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M	<3 M	<3 M	<3 ♦ M	<3 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		26.2	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		747	775	<10	<10	43.5	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		3380	4800	61	244	115	<10
Aliphatics >C8-C10	<10 µg/kg	TM089		11100	10100	1480	2430	411	<10
Aliphatics >C10-C12	<10 µg/kg	TM089		16500	8930	6060	4160	2510	<10
Aliphatics >C12-C16	<100 µg/kg	TM173		178000	33200	13100	1520	3180	3270
Aliphatics >C16-C21	<100 µg/kg	TM173		233000	45800	24800	3420	2040	2710
Aliphatics >C21-C35	<100 µg/kg	TM173		237000	195000	4570	3620	7980	8020
Aliphatics >C35-C44	<100 µg/kg	TM173		53400	99700	1310	1190	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		701000	373000	43800	9760	13200	14000
Aromatics >EC5-EC7	<10 µg/kg	TM089		26.2	19.2	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		7380	6760	984	1620	274	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089		11000	5950	4040	2770	1670	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173		66300	8600	12400	6660	5920	1620
Aromatics >EC16-EC21	<100 µg/kg	TM173		132000	21700	10900	5630	807	1370
Aromatics >EC21-EC35	<100 µg/kg	TM173		253000	177000	8500	9590	14900	9260
Aromatics >EC35-EC44	<100 µg/kg	TM173		114000	184000	2070	1970	11700	6330
Aromatics >EC40-EC44	<100 µg/kg	TM173		47900	86300	<100	<100	4990	2710
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		565000	391000	33800	23800	33300	18600
Total Aliphatics >C5-35	<100 µg/kg	TM173		679000	298000	50100	15400	16300	14000
Total Aromatics >C5-35	<100 µg/kg	TM173		470000	220000	36800	26300	23600	12300
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1150000	518000	86900	41700	39800	26300

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
		SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
(F)	Trigger breach confirmed	Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1320000	802000	90200	44800	51500	32600

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP7 S	CHVTP7 W				
			Depth (m)	0.80	1.10				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	21/06/2013	21/06/2013				
			Sample Time	.	.				
			Date Received	22/06/2013	22/06/2013				
			SDG Ref	130622-28	130622-28				
			Lab Sample No.(s)	7636407	7636410				
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		20	1				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		784 M	324 M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 ♦ M				
Benzene	<10 µg/kg	TM089		<10 ♦ M	<10 ♦ M				
Toluene	<2 µg/kg	TM089		2.44 ♦ M	2.12 ♦ M				
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M				
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<6 ♦ M				
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10				
Aliphatics >C6-C8	<10 µg/kg	TM089		22	24.3				
Aliphatics >C8-C10	<10 µg/kg	TM089		70.8	37				
Aliphatics >C10-C12	<10 µg/kg	TM089		373	132				
Aliphatics >C12-C16	<100 µg/kg	TM173		13300	7040				
Aliphatics >C16-C21	<100 µg/kg	TM173		46600	10500				
Aliphatics >C21-C35	<100 µg/kg	TM173		185000	40100				
Aliphatics >C35-C44	<100 µg/kg	TM173		73300	<100				
Total Aliphatics >C12-C44	<100 µg/kg	TM173		318000	57700				
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089		51.2	25.4				
Aromatics >EC10-EC12	<10 µg/kg	TM089		249	87.8				
Aromatics >EC12-EC16	<100 µg/kg	TM173		3350	4980				
Aromatics >EC16-EC21	<100 µg/kg	TM173		18900	4150				
Aromatics >EC21-EC35	<100 µg/kg	TM173		158000	34400				
Aromatics >EC35-EC44	<100 µg/kg	TM173		95000	16000				
Aromatics >EC40-EC44	<100 µg/kg	TM173		39200	6860				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		276000	59600				
Total Aliphatics >C5-35	<100 µg/kg	TM173		245000	57900				
Total Aromatics >C5-35	<100 µg/kg	TM173		181000	43700				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		426000	102000				

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP7 S	CHVTP7 W
			Depth (m)	0.80	1.10
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013
			Sample Time	.	.
			Date Received	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28
			Lab Sample No.(s)	7636407	7636410
			AGS Reference		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		594000	118000

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
			Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
			AGS Reference						
Dibromofluoromethane**	%	TM116		99.4 ♦	98.8 ♦	102 ♦	103 ♦	103 ♦	104 ♦
Toluene-d8**	%	TM116		96.6 ♦	95.5 ♦	102 ♦	99.1 ♦	100 ♦	102 ♦
4-Bromofluorobenzene**	%	TM116		123 ♦	123 ♦	107 ♦	109 ♦	108 ♦	106 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 ♦ M	<8 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<14 ♦	<14 ♦	<140 ♦	<140 ♦	<140 ♦	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<20 ♦	<20 ♦	<200 ♦	<200 ♦	<200 ♦	<200 ♦
Bromomethane	<13 µg/kg	TM116		<26 ♦ M	<26 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<28 ♦ M	<28 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<12 ♦ M	<12 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<20 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		50.1 ♦ M	55 ♦ M	253 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<20 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 ♦ M	<22 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 ♦ M	<22 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<16 ♦ M	<16 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 ♦ M	<10 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<24 ♦ M	<24 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<28 ♦ M	<28 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<16 ♦ M	<16 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 ♦ M	<14 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
1,1-Dichloropropene	<11 µg/kg	TM116		<22 ♦ M	<22 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<28 ♦ M	<28 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<10 ♦ M	<10 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Benzene	<9 µg/kg	TM116		<18 ♦ M	<18 ♦ M	238 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<18 ♦ M	<18 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<24 ♦ M	<24 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<18 ♦ M	<18 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Bromodichloromethane	<7 µg/kg	TM116		<14 ♦ M	<14 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 ♦ M	<28 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Toluene	<5 µg/kg	TM116		<10 ♦ M	<10 ♦ M	224 ♦ M	285 ♦ M	<100 ♦ M	<100 ♦ M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<28 ♦	<28 ♦	<280 ♦	<280 ♦	<280 ♦	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
			Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<14 ♦ #	<14 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<10 ♦ M	<10 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<26 ♦ M	<26 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<24 ♦ M	<24 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<10 ♦ M	<10 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<8 ♦ M	<8 ♦ M	219 ♦ M	240 ♦ M	<80 ♦ M	123 ♦ M
p/m-Xylene	<14 µg/kg	TM116		<28 ♦ #	<28 ♦ #	617 ♦ #	936 ♦ #	<280 ♦ #	362 ♦ #
o-Xylene	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	460 ♦ M	<200 ♦ M	<200 ♦ M
Styrene	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		<10 ♦ M	<10 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 ♦ M	<34 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		<22 ♦ M	<22 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<18 ♦ M	<18 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<16 ♦ #	<16 ♦ #	<160 ♦ #	260 ♦ #	<160 ♦ #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<24 ♦ M	<24 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<24 ♦ #	<24 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<18 ♦ #	<18 ♦ #	<180 ♦ #	820 ♦ #	<180 ♦ #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<22 ♦ M	<22 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 ♦ M	<12 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 ♦ M	<10 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<20 ♦ M	<20 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 ♦ M	<24 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 ♦ M	<28 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<30 ♦	<30 ♦	<300 ♦	<300 ♦	<300 ♦	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 ♦ #	<12 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<24 ♦	<24 ♦	<240 ♦	<240 ♦	<240 ♦	<240 ♦
Naphthalene	<13 µg/kg	TM116		<26 ♦ M	<26 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N
			Depth (m)	0.30	0.30	0.80	0.80	0.60	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636411	7636412	7636393	7636394	7636398	7636395
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<12 ♦ M	<12 ♦ M	<120 ♦ M	182 ♦ M	<120 ♦ M	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
			Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
			AGS Reference						
Dibromofluoromethane**	%	TM116		105 ♦	104 ♦	96.2	95.2	91.7	99.6 ♦
Toluene-d8**	%	TM116		102 ♦	101 ♦	99.8	99.5	92.2	96.2 ♦
4-Bromofluorobenzene**	%	TM116		102 ♦	103 ♦	111	114	130	135 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<4 M	<4 M	<4 M	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<7	<7	<7	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<10	<10	<10	<200 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<13 M	<13 M	<13 M	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 M	<14 M	<14 M	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<6 M	<6 M	<6 M	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<10 #	<10 #	<10 #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	15.1 M	<7 M	123 M	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<10 #	<10 #	<10 #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 M	<11 M	<11 M	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 M	<11 M	<11 M	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<8 M	<8 M	<8 M	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 M	<5 M	<5 M	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 M	<12 M	<12 M	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 M	<14 M	<14 M	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<8 M	<8 M	<8 M	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<7 M	<7 M	<7 M	<140 ♦ M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 M	<11 M	<11 M	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 M	<14 M	<14 M	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 M	<5 M	<5 M	<100 ♦ M
Benzene	<9 µg/kg	TM116		226 ♦ M	<180 ♦ M	<9 M	<9 M	<9 M	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<9 M	<9 M	<9 M	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 M	<12 M	<12 M	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<9 M	<9 M	<9 M	<180 ♦ M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<7 M	<7 M	<7 M	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 M	<14 M	<14 M	<280 ♦ M
Toluene	<5 µg/kg	TM116		233 ♦ M	<100 ♦ M	<5 M	<5 M	<5 M	<100 ♦ M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦	<280 ♦	<14	<14	<14	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	<10 M	<10 M	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
			Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<7 #	<7 #	<7 #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 M	<5 M	<5 M	<100 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<13 M	<13 M	<13 M	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 M	<12 M	<12 M	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 M	<5 M	<5 M	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	<10 M	<10 M	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<4 M	<4 M	<4 M	<80 ♦ M
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ #	<14 #	<14 #	<14 #	<280 ♦ #
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	<10 M	<10 M	<200 ♦ M
Styrene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	<10 M	<10 M	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	<10 M	<10 M	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 M	<5 M	17.5 M	<100 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<10 #	<10 #	<10 #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<340 ♦ M	<17 M	<17 M	<17 M	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	<10 M	<10 M	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 M	<11 M	<11 M	<220 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<9 M	<9 M	<9 M	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<8 #	<8 #	<8 #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 M	<12 M	<12 M	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<12 #	<12 #	<12 #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ #	<9 #	<9 #	35.5 #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	37.7 M	89.3 M	<200 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 M	<11 M	<11 M	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<6 M	<6 M	<6 M	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 M	<5 M	<5 M	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 M	<10 M	<10 M	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 M	<12 M	<12 M	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 M	<14 M	<14 M	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<15	<15	<15	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<6 #	<6 #	<6 #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<12	<12	<12	<240 ♦
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<13 M	<13 M	<13 M	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2	CHVTP7 E	CHVTP7 N
			Depth (m)	0.60	0.60	2.20	2.20	1.10	0.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013	21/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28	130622-28	130622-28	130622-28	130622-28
			Lab Sample No.(s)	7636397	7636399	7636403	7636405	7636408	7636406
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<6 M	<6 M	<6 M	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP7 S	CHVTP7 W			
			Depth (m)	0.80	1.10			
			Sample Type	Soil/Solid	Soil/Solid			
			Date Sampled	21/06/2013	21/06/2013			
			Sample Time	.	.			
			Date Received	22/06/2013	22/06/2013			
			SDG Ref	130622-28	130622-28			
			Lab Sample No.(s)	7636407	7636410			
			AGS Reference					
Dibromofluoromethane**	%	TM116		103 ♦	93.1 ♦			
Toluene-d8**	%	TM116		101 ♦	91.4 ♦			
4-Bromofluorobenzene**	%	TM116		103 ♦	146 ♦			
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 ♦ M	<80 ♦ M			
Chloromethane	<7 µg/kg	TM116		<14 ♦	<140 ♦			
Vinyl Chloride	<10 µg/kg	TM116		<20 ♦	<200 ♦			
Bromomethane	<13 µg/kg	TM116		<26 ♦ M	<260 ♦ M			
Chloroethane	<14 µg/kg	TM116		<28 ♦ M	<280 ♦ M			
Trichlorofluorormethane	<6 µg/kg	TM116		<12 ♦ M	<120 ♦ M			
1,1-Dichloroethene	<10 µg/kg	TM116		<20 ♦ #	<200 ♦ #			
Carbon Disulphide	<7 µg/kg	TM116		<14 ♦ M	<140 ♦ M			
Dichloromethane	<10 µg/kg	TM116		<20 ♦ #	<200 ♦ #			
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 ♦ M	<220 ♦ M			
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 ♦ M	<220 ♦ M			
1,1-Dichloroethane	<8 µg/kg	TM116		<16 ♦ M	<160 ♦ M			
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 ♦ M	<100 ♦ M			
2,2-Dichloropropane	<12 µg/kg	TM116		<24 ♦ M	<240 ♦ M			
Bromochloromethane	<14 µg/kg	TM116		<28 ♦ M	<280 ♦ M			
Chloroform	<8 µg/kg	TM116		<16 ♦ M	<160 ♦ M			
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 ♦ M	<140 ♦ M			
1,1-Dichloropropene	<11 µg/kg	TM116		<22 ♦ M	<220 ♦ M			
Carbontetrachloride	<14 µg/kg	TM116		<28 ♦ M	<280 ♦ M			
1,2-Dichloroethane	<5 µg/kg	TM116		<10 ♦ M	<100 ♦ M			
Benzene	<9 µg/kg	TM116		<18 ♦ M	204 ♦ M			
Trichloroethene	<9 µg/kg	TM116		<18 ♦ M	<180 ♦ M			
1,2-Dichloropropane	<12 µg/kg	TM116		<24 ♦ M	<240 ♦ M			
Dibromomethane	<9 µg/kg	TM116		<18 ♦ M	<180 ♦ M			
Bromodichloromethane	<7 µg/kg	TM116		<14 ♦ M	<140 ♦ M			
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 ♦ M	<280 ♦ M			
Toluene	<5 µg/kg	TM116		<10 ♦ M	176 ♦ M			
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<28 ♦	<280 ♦			
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M			

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP7 S	CHVTP7 W				
			Depth (m)	0.80	1.10				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	21/06/2013	21/06/2013				
			Sample Time	.	.				
			Date Received	22/06/2013	22/06/2013				
			SDG Ref	130622-28	130622-28				
			Lab Sample No.(s)	7636407	7636410				
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<14 ♦ #	<140 ♦ #				
Tetrachloroethene	<5 µg/kg	TM116		<10 ♦ M	<100 ♦ M				
Dibromochloromethane	<13 µg/kg	TM116		<26 ♦ M	<260 ♦ M				
1,2-Dibromoethane	<12 µg/kg	TM116		<24 ♦ M	<240 ♦ M				
Chlorobenzene	<5 µg/kg	TM116		<10 ♦ M	<100 ♦ M				
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M				
Ethylbenzene	<4 µg/kg	TM116		<8 ♦ M	<80 ♦ M				
p/m-Xylene	<14 µg/kg	TM116		<28 ♦ #	<280 ♦ #				
o-Xylene	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M				
Styrene	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M				
Bromoform	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M				
Isopropylbenzene	<5 µg/kg	TM116		<10 ♦ M	<100 ♦ M				
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 ♦ #	<200 ♦ #				
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 ♦ M	<340 ♦ M				
Bromobenzene	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M				
Propylbenzene	<11 µg/kg	TM116		<22 ♦ M	<220 ♦ M				
2-Chlorotoluene	<9 µg/kg	TM116		<18 ♦ M	<180 ♦ M				
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<16 ♦ #	<160 ♦ #				
4-Chlorotoluene	<12 µg/kg	TM116		<24 ♦ M	<240 ♦ M				
tert-Butylbenzene	<12 µg/kg	TM116		<24 ♦ #	<240 ♦ #				
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<18 ♦ #	<180 ♦ #				
sec-Butylbenzene	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M				
4-Isopropyltoluene	<11 µg/kg	TM116		<22 ♦ M	<220 ♦ M				
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 ♦ M	<120 ♦ M				
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 ♦ M	<100 ♦ M				
n-Butylbenzene	<10 µg/kg	TM116		<20 ♦ M	<200 ♦ M				
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 ♦ M	<240 ♦ M				
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 ♦ M	<280 ♦ M				
Tert-amyl methyl ether	<15 µg/kg	TM116		<30 ♦	<300 ♦				
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 ♦ #	<120 ♦ #				
Hexachlorobutadiene	<12 µg/kg	TM116		<24 ♦	<240 ♦				
Naphthalene	<13 µg/kg	TM116		<26 ♦ M	<260 ♦ M				

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP7 S	CHVTP7 W
			Depth (m)	0.80	1.10
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	21/06/2013	21/06/2013
			Sample Time	.	.
			Date Received	22/06/2013	22/06/2013
			SDG Ref	130622-28	130622-28
			Lab Sample No.(s)	7636407	7636410
			AGS Reference		
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<12 ♦ M	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV043 0.30 SOLID 21/06/2013 00:00:00 130622-28 7636411 TM048	09/07/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV044 0.30 SOLID 21/06/2013 00:00:00 130622-28 7636412 TM048	09/07/13	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 Base 1 0.80 SOLID 21/06/2013 00:00:00 130622-28 7636393 TM048	09/07/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 Base 2 0.80 SOLID 21/06/2013 00:00:00 130622-28 7636394 TM048	09/07/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 E 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636398 TM048	09/07/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 N 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636395 TM048	09/07/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 S 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636397 TM048	09/07/13	Chris Swindells	Loose fibres in soil	Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 W 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636399 TM048	09/07/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP7 Base 1 2.20 SOLID 21/06/2013 00:00:00 130622-28 7636403 TM048	09/07/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP7 Base 2 2.20 SOLID 21/06/2013 00:00:00 130622-28 7636405 TM048	09/07/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP7 E 1.10 SOLID 21/06/2013 00:00:00 130622-28 7636408 TM048	09/07/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP7 N 0.80 SOLID 21/06/2013 00:00:00 130622-28 7636406 TM048	09/07/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP7 S 0.80 SOLID 21/06/2013 00:00:00 130622-28 7636407 TM048	09/07/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP7 W 1.10 SOLID 21/06/2013 00:00:00 130622-28 7636410 TM048	09/07/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 Base 1 0.80 SOLID 21/06/2013 00:00:00 130622-28 7636393 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 Base 2 0.80 SOLID 21/06/2013 00:00:00 130622-28 7636394 TM 304	None (#)	Amphibole fibres found during PCM analysis.	<0.001 (#)	<0.001 (#)	0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 E 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636398 TM 304	None (#)	N/C	0.0857 (#)	0.0015 (#)	0.0872 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 N 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636395 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 S 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636397 TM 304	Chrysotile (loose fibres) (#)	N/C	<0.001 (#)	0.0011 (#)	0.0013 (#)

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 W 0.60 SOLID 21/06/2013 00:00:00 130622-28 7636399 TM 304	Amosite (loose fibres) (#)	N/C	0.0043 (#)	<0.001 (#)	0.0047 (#)

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7636411	7636412	7636393	7636394	7636398	7636395	7636397	7636399	7636403	7636405
Customer Sample Ref.	CAV043	CAV044	CAV039 Base 1	CAV039 Base 2	CAV039 E	CAV039 N	CAV039 S	CAV039 W	CHVTP7 Base 1	CHVTP7 Base 2
AGS Ref.										
Depth	0.30	0.30	0.80	0.80	0.60	0.60	0.60	0.60	2.20	2.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013
Asbestos Quantification - Full			24-Jul-2013	24-Jul-2013	24-Jul-2013	24-Jul-2013	24-Jul-2013	24-Jul-2013		
EPH CWG (Aliphatic) GC (S)	05-Jul-2013	08-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
EPH CWG (Aromatic) GC (S)	05-Jul-2013	08-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
GRO by GC-FID (S)	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013	07-Jul-2013	07-Jul-2013
Metals in solid samples by OES	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013
pH	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	01-Jul-2013	01-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013
Sample description	30-Jun-2013	30-Jun-2013	30-Jun-2013	30-Jun-2013	01-Jul-2013	30-Jun-2013	30-Jun-2013	01-Jul-2013	30-Jun-2013	30-Jun-2013
Semi Volatile Organic Compounds	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
Total Organic Carbon	05-Jul-2013	05-Jul-2013	05-Jul-2013	03-Jul-2013	04-Jul-2013	03-Jul-2013	03-Jul-2013	04-Jul-2013	05-Jul-2013	05-Jul-2013
TPH CWG GC (S)	08-Jul-2013	08-Jul-2013	08-Jul-2013	09-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013	07-Jul-2013	07-Jul-2013
VOC MS (S)	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	08-Jul-2013	08-Jul-2013

Lab Sample No(s)	7636408	7636406	7636407	7636410
Customer Sample Ref.	CHVTP7 E	CHVTP7 N	CHVTP7 S	CHVTP7 W
AGS Ref.				
Depth	1.10	0.80	0.80	1.10
Type	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013
EPH CWG (Aliphatic) GC (S)	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
EPH CWG (Aromatic) GC (S)	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
GRO by GC-FID (S)	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013
Metals in solid samples by OES	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013
pH	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013
Sample description	01-Jul-2013	01-Jul-2013	01-Jul-2013	01-Jul-2013
Semi Volatile Organic Compounds	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
Total Organic Carbon	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013
TPH CWG GC (S)	08-Jul-2013	08-Jul-2013	08-Jul-2013	08-Jul-2013
VOC MS (S)	08-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013

SDG:	130622-28	**Location:**	Coed Darcy Urban Village	**Order Number:**	CDO443
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234646
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	26 July 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130615-64
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	234948

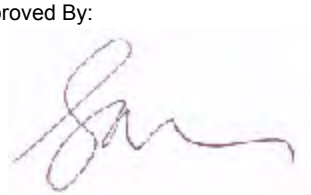
This report has been revised and directly supersedes 231134 in its entirety.

We received 7 samples on Saturday June 15, 2013 and 7 of these samples were scheduled for analysis which was completed on Friday July 26, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7596614	CAV134			14/06/2013
7596615	CAV135			14/06/2013
7607282	CHVTP1		0.10	14/06/2013
7607283	CHVTP2		0.10	14/06/2013
7607285	CHVTP3		0.10	14/06/2013
7596618	DRANAGE DITCH 1			14/06/2013
7596621	DRANAGE DITCH 2			14/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

SOLID

Results Legend

X Test

N No Determination Possible

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7596614	CAV134			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7596615	CAV135			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7607282	CHVTP1		0.10	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7607283	CHVTP2		0.10	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7607285	CHVTP3		0.10	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7596618	DRANAGE DITCH 1			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			7596621	DRANAGE DITCH 2			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 5		X			X
				X			X
							X
				X			X
							X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4		X			X
				X			X
							X
				X			X
							X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 7	X		X		X
				X			X
							X
				X			X
							X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 7	X		X		X
				X			X
							X
				X			X
							X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 7		X		X	
				X			X
							X
				X			X
							X
Metals in solid samples by OES	All	NDPs: 0 Tests: 7	X		X		X
				X			X
							X
				X			X
							X
pH	All	NDPs: 0 Tests: 7		X		X	
				X			X
							X
				X			X
							X
Sample description	All	NDPs: 0 Tests: 7	X		X		X
				X			X
							X
				X			X
							X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 7	X		X		X
				X			X
							X
				X			X
							X
Total Organic Carbon	All	NDPs: 5 Tests: 2	N		N		N
				N			N
							N
				X			X
							X
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 5	X		X		X
				X			X
							X
				X			X
							X
TPH CWG GC (S)	All	NDPs: 0 Tests: 7	X		X		X
				X			X
							X
				X			X
							X
VOC MS (S)	All	NDPs: 0 Tests: 7		X		X	
				X			X
							X
				X			X
							X

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Sample Descriptions

Grain Sizes

very fine	<0.063mm	**fine**	0.063mm - 0.1mm	**medium**	0.1mm - 2mm	**coarse**	2mm - 10mm	**very coarse**	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7596614	CAV134		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7596615	CAV135		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7607282	CHVTP1	0.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7607283	CHVTP2	0.10	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7607285	CHVTP3	0.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7596618	DRANAGE DITCH 1		Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Oil/Petroleum
7596621	DRANAGE DITCH 2		Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Oil/Petroleum

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
			Depth (m)	.	.	0.10	0.10	0.10	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
			SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
			Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132							16.7 #
pH	1 pH Units	TM133		8.22 M	8.64 M	8.35 M	8.27 M	8.57 M	8.44 M
Arsenic	<0.6 mg/kg	TM181		59.3 M	34 M	18.4 M	19.1 M	15.6 M	55.2 M
Cadmium	<0.02 mg/kg	TM181		0.634 M	0.594 M	0.419 M	0.475 M	0.344 M	1.07 M
Chromium	<0.9 mg/kg	TM181		17.7 M	22.2 M	15.6 M	16.1 M	17 M	19.9 M
Copper	<1.4 mg/kg	TM181		92.7 M	140 M	53.2 M	58 M	43.9 M	291 M
Lead	<0.7 mg/kg	TM181		200 M	125 M	93.9 M	93.1 M	69.1 M	404 M
Mercury	<0.14 mg/kg	TM181		0.223 M	0.214 M	0.379 M	0.471 M	0.35 M	0.583 M
Nickel	<0.2 mg/kg	TM181		27 M	20.5 M	25.8 M	24.8 M	26.8 M	31.3 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	1.01 #
Zinc	<1.9 mg/kg	TM181		590 M	433 M	252 M	286 M	187 M	1420 M
Soil Organic Matter (SOM)	<0.1 %	TM321		0.695	6.49	2.68	6.18	2.48	

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	**LOD/Units**	**Method**	**Customer Sample R**
			Depth (m)
			Sample Type
			Date Sampled
			Sample Time
			Date Received
			SDG Ref
			Lab Sample No.(s)
			AGS Reference
Soil Organic Matter (SOM)	<0.35 %	TM132	DRANAGE DITCH 2 . Soil/Solid 14/06/2013 . 15/06/2013 130615-64 7596621 16.9 #
pH	1 pH Units	TM133	7.34 M
Arsenic	<0.6 mg/kg	TM181	35.5 M
Cadmium	<0.02 mg/kg	TM181	0.97 M
Chromium	<0.9 mg/kg	TM181	16.8 M
Copper	<1.4 mg/kg	TM181	108 M
Lead	<0.7 mg/kg	TM181	217 M
Mercury	<0.14 mg/kg	TM181	<0.14 M
Nickel	<0.2 mg/kg	TM181	18.1 M
Selenium	<1 mg/kg	TM181	1.26 #
Zinc	<1.9 mg/kg	TM181	412 M

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
			Depth (m)	.	.	0.10	0.10	0.10	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
			SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
			Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	180	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	122	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
			Depth (m)	.	.	0.10	0.10	0.10	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
			SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
			Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		133	<100	<100	<100	<100	717
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		133	133	<100	158	221	<100
Benzo(a)anthracene	<100 µg/kg	TM157		650	543	162	143	328	157
Benzo(b)fluoranthene	<100 µg/kg	TM157		597	455	150	141	191	220
Benzo(k)fluoranthene	<100 µg/kg	TM157		531	417	132	133	237	<100
Benzo(a)pyrene	<100 µg/kg	TM157		640	503	163	141	274	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		400	309	<100	<100	158	<100
Chrysene	<100 µg/kg	TM157		766	698	271	194	350	576
Fluoranthene	<100 µg/kg	TM157		1070	910	201	183	697	290
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		357	279	<100	<100	133	<100
Phenanthrene	<100 µg/kg	TM157		532	377	133	157	799	404
Pyrene	<100 µg/kg	TM157		848	728	230	228	576	602
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	884
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		112	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R					
			DRANAGE DITCH 2					
Depth (m)			.					
Sample Type			Soil/Solid					
Date Sampled			14/06/2013					
Sample Time			.					
Date Received			15/06/2013					
SDG Ref			130615-64					
Lab Sample No.(s)			7596621					
AGS Reference								
Phenol	<100 µg/kg	TM157	<100					
Pentachlorophenol	<100 µg/kg	TM157	<100					
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100					
Nitrobenzene	<100 µg/kg	TM157	<100					
Isophorone	<100 µg/kg	TM157	<100					
Hexachloroethane	<100 µg/kg	TM157	<100					
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100					
Hexachlorobutadiene	<100 µg/kg	TM157	<100					
Hexachlorobenzene	<100 µg/kg	TM157	<100					
n-Dioctyl phthalate	<100 µg/kg	TM157	<100					
Dimethyl phthalate	<100 µg/kg	TM157	<100					
Diethyl phthalate	<100 µg/kg	TM157	<100					
n-Dibutyl phthalate	<100 µg/kg	TM157	<100					
Dibenzofuran	<100 µg/kg	TM157	<100					
Carbazole	<100 µg/kg	TM157	<100					
Butylbenzyl phthalate	<100 µg/kg	TM157	<100					
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<100					
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100					
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100					
Azobenzene	<100 µg/kg	TM157	<100					
4-Nitrophenol	<100 µg/kg	TM157	<100					
4-Nitroaniline	<100 µg/kg	TM157	<100					
4-Methylphenol	<100 µg/kg	TM157	<100					
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100					
4-Chloroaniline	<100 µg/kg	TM157	<100					
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100					
4-Bromophenylphenylether	<100 µg/kg	TM157	<100					
3-Nitroaniline	<100 µg/kg	TM157	<100					
2-Nitrophenol	<100 µg/kg	TM157	<100					
2-Nitroaniline	<100 µg/kg	TM157	<100					
2-Methylphenol	<100 µg/kg	TM157	<100					
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100					

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

		Customer Sample R	DRANAGE DITCH 2
		Depth (m)	.
		Sample Type	Soil/Solid
		Date Sampled	14/06/2013
		Sample Time	.
		Date Received	15/06/2013
		SDG Ref	130615-64
		Lab Sample No.(s)	7596621
		AGS Reference	
Component	**LOD/Units**	**Method**	
2-Chlorophenol	<100 µg/kg	TM157	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100
2,4-Dimethylphenol	<100 µg/kg	TM157	<100
2,4-Dichlorophenol	<100 µg/kg	TM157	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157	<100
2-Chloronaphthalene	<100 µg/kg	TM157	<100
2-Methylnaphthalene	<100 µg/kg	TM157	<100
Acenaphthylene	<100 µg/kg	TM157	<100
Acenaphthene	<100 µg/kg	TM157	<100
Anthracene	<100 µg/kg	TM157	<100
Benzo(a)anthracene	<100 µg/kg	TM157	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157	<100
Benzo(a)pyrene	<100 µg/kg	TM157	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157	<100
Chrysene	<100 µg/kg	TM157	<100
Fluoranthene	<100 µg/kg	TM157	<100
Fluorene	<100 µg/kg	TM157	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157	<100
Phenanthrene	<100 µg/kg	TM157	<100
Pyrene	<100 µg/kg	TM157	<100
Naphthalene	<100 µg/kg	TM157	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157	<100

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
			Depth (m)	.	.	0.10	0.10	0.10	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
			SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
			Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		72	94	31	18	6	38
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		290 M	281 M	712 M	328 M	359 M	89300 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 ♦ M	<5 M	<5 M	<5 M	<5 M
Benzene	<10 µg/kg	TM089		<10 M	<10 ♦ M	<10 M	<10 M	<10 M	68.1 M
Toluene	<2 µg/kg	TM089		<2 M	3.3 ♦ M	4.48 M	3.42 M	3.42 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	3.3 ♦ M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 ♦ M	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 ♦ M	3.36 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	68.1
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	15.4	16.8	12.5	13.7	437
Aliphatics >C6-C8	<10 µg/kg	TM089		18.7	75.9	42.6	34.2	38.8	18500
Aliphatics >C8-C10	<10 µg/kg	TM089		29.7	66	47	37.6	42.2	28400
Aliphatics >C10-C12	<10 µg/kg	TM089		128	41.8	334	124	132	13700
Aliphatics >C12-C16	<100 µg/kg	TM173		12100	8580	27600	52500	107000	161000
Aliphatics >C16-C21	<100 µg/kg	TM173		41200	15500	122000	242000	<100	261000
Aliphatics >C21-C35	<100 µg/kg	TM173		82500	69400	382000	646000	276000	643000
Aliphatics >C35-C44	<100 µg/kg	TM173		24300	62500	75600	144000	70500	134000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		160000	156000	607000	1080000	454000	1200000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	68.1
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		22	50.6	42.6	31.9	36.5	18900
Aromatics >EC10-EC12	<10 µg/kg	TM089		84.7	27.5	222	82.1	87.8	9160
Aromatics >EC12-EC16	<100 µg/kg	TM173		1820	5490	10900	17200	9470	89100
Aromatics >EC16-EC21	<100 µg/kg	TM173		18800	16600	77100	143000	54700	210000
Aromatics >EC21-EC35	<100 µg/kg	TM173		61900	109000	277000	477000	202000	618000
Aromatics >EC35-EC44	<100 µg/kg	TM173		30800	135000	79000	157000	83600	211000
Aromatics >EC40-EC44	<100 µg/kg	TM173		12600	66500	32200	65100	36700	75700
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		113000	266000	444000	794000	350000	1130000
Total Aliphatics >C5-35	<100 µg/kg	TM173		136000	93700	532000	941000	384000	1130000
Total Aromatics >C5-35	<100 µg/kg	TM173		82600	131000	365000	638000	266000	946000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		219000	225000	897000	1580000	650000	2070000

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

TPH CWG (S)

Results Legend		Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	0.10	0.10	0.10	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
		SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
(F)	Trigger breach confirmed	Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	274000	423000	1050000	1880000	804000	2420000

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	DRANAGE DITCH 2
Depth (m)	.
Sample Type	Soil/Solid
Date Sampled	14/06/2013
Sample Time	.
Date Received	15/06/2013
SDG Ref	130615-64
Lab Sample No.(s)	7596621
AGS Reference	

Component	LOD/Units	Method	
GRO Surrogate % recovery**	%	TM089	39
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	63100 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<10 ♦ M
Benzene	<10 µg/kg	TM089	160 ♦ M
Toluene	<2 µg/kg	TM089	<4 ♦ M
Ethylbenzene	<3 µg/kg	TM089	<6 ♦ M
m,p-Xylene	<6 µg/kg	TM089	<12 ♦ M
o-Xylene	<3 µg/kg	TM089	<6 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	160
Aliphatics >C5-C6	<10 µg/kg	TM089	950
Aliphatics >C6-C8	<10 µg/kg	TM089	21700
Aliphatics >C8-C10	<10 µg/kg	TM089	13800
Aliphatics >C10-C12	<10 µg/kg	TM089	10400
Aliphatics >C12-C16	<100 µg/kg	TM173	106000
Aliphatics >C16-C21	<100 µg/kg	TM173	96000
Aliphatics >C21-C35	<100 µg/kg	TM173	374000
Aliphatics >C35-C44	<100 µg/kg	TM173	32100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	608000
Aromatics >EC5-EC7	<10 µg/kg	TM089	160
Aromatics >EC7-EC8	<10 µg/kg	TM089	<20
Aromatics >EC8-EC10	<10 µg/kg	TM089	9200
Aromatics >EC10-EC12	<10 µg/kg	TM089	6920
Aromatics >EC12-EC16	<100 µg/kg	TM173	124000
Aromatics >EC16-EC21	<100 µg/kg	TM173	129000
Aromatics >EC21-EC35	<100 µg/kg	TM173	632000
Aromatics >EC35-EC44	<100 µg/kg	TM173	177000
Aromatics >EC40-EC44	<100 µg/kg	TM173	55400
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1060000
Total Aliphatics >C5-35	<100 µg/kg	TM173	622000
Total Aromatics >C5-35	<100 µg/kg	TM173	901000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	1520000

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

TPH CWG (S)

Results Legend		Customer Sample R	DRANAGE DITCH 2
#	ISO17025 accredited.		
M	*m*CERTS accredited.		
aq	Aqueous / settled sample.		
diss.filt	Dissolved / filtered sample.		
tot.unfilt	Total / unfiltered sample.		
*	Subcontracted test.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		
(F)	Trigger breach confirmed		
1-4&+§@	Sample deviation (see appendix)		
		Depth (m)	.
		Sample Type	Soil/Solid
		Date Sampled	14/06/2013
		Sample Time	.
		Date Received	15/06/2013
		SDG Ref	130615-64
		Lab Sample No.(s)	7596621
		AGS Reference	

Component	LOD/Units	Method	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1730000

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
			Depth (m)	.	.	0.10	0.10	0.10	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
			SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
			Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
			AGS Reference						
Dibromofluoromethane**	%	TM116		99.6	108	101	123	113	103
Toluene-d8**	%	TM116		93.5	107	97.5	104	96.8	96
4-Bromofluorobenzene**	%	TM116		133	122	127	108	139	129
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<8 M	<80 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<7	<14	<140	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<10	<20	<200	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<13 M	<26 M	<260 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<12 M	<120 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<10 #	<20 #	<200 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<7 M	17.7 M	<140 M	<140 M	<140 M	447 M
Dichloromethane	<10 µg/kg	TM116		<10 #	<20 #	<200 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<8 M	<16 M	<160 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<8 M	<16 M	<160 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<7 M	<14 M	<140 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<14 M	<140 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		9.2 M	21.2 M	<100 M	<100 M	148 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<14	<28	<280	<280	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
			Depth (m)	.	.	0.10	0.10	0.10	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
			SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
			Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<7 #	<14 #	<140 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<26 M	<260 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		5.97 M	<8 M	<80 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<14 #	<28 #	<280 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<20 #	<200 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<17 M	<34 M	<340 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<16 #	<160 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<24 #	<240 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<18 #	<180 #	<180 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<12 M	<120 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<30	<300	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<12 #	<120 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<24	<240	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<13 M	<26 M	<260 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

VOC MS (S)

Results Legend		Customer Sample R	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	0.10	0.10	0.10	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013	14/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013	15/06/2013
		SDG Ref	130615-64	130615-64	130615-64	130615-64	130615-64	130615-64
(F)	Trigger breach confirmed	Lab Sample No.(s)	7596614	7596615	7607282	7607283	7607285	7596618
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<6 M	<12 M	<120 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

	Customer Sample R	LOD/Units	Method
	DRANAGE DITCH 2		
Depth (m)	.		
Sample Type	Soil/Solid		
Date Sampled	14/06/2013		
Sample Time	.		
Date Received	15/06/2013		
SDG Ref	130615-64		
Lab Sample No.(s)	7596621		
AGS Reference			
Component		**LOD/Units**	**Method**
Dibromofluoromethane**	105	%	TM116
Toluene-d8**	95.3	%	TM116
4-Bromofluorobenzene**	130	%	TM116
Dichlorodifluoromethane	<80 M	<4 µg/kg	TM116
Chloromethane	<140	<7 µg/kg	TM116
Vinyl Chloride	<200	<10 µg/kg	TM116
Bromomethane	<260 M	<13 µg/kg	TM116
Chloroethane	<280 M	<14 µg/kg	TM116
Trichlorofluorormethane	<120 M	<6 µg/kg	TM116
1,1-Dichloroethene	<200 #	<10 µg/kg	TM116
Carbon Disulphide	<140 M	<7 µg/kg	TM116
Dichloromethane	<200 #	<10 µg/kg	TM116
Methyl Tertiary Butyl Ether	<220 M	<11 µg/kg	TM116
trans-1,2-Dichloroethene	<220 M	<11 µg/kg	TM116
1,1-Dichloroethane	<160 M	<8 µg/kg	TM116
cis-1,2-Dichloroethene	<100 M	<5 µg/kg	TM116
2,2-Dichloropropane	<240 M	<12 µg/kg	TM116
Bromochloromethane	<280 M	<14 µg/kg	TM116
Chloroform	<160 M	<8 µg/kg	TM116
1,1,1-Trichloroethane	<140 M	<7 µg/kg	TM116
1,1-Dichloropropene	<220 M	<11 µg/kg	TM116
Carbontetrachloride	<280 M	<14 µg/kg	TM116
1,2-Dichloroethane	<100 M	<5 µg/kg	TM116
Benzene	<180 M	<9 µg/kg	TM116
Trichloroethene	<180 M	<9 µg/kg	TM116
1,2-Dichloropropane	<240 M	<12 µg/kg	TM116
Dibromomethane	<180 M	<9 µg/kg	TM116
Bromodichloromethane	<140 M	<7 µg/kg	TM116
cis-1,3-Dichloropropene	<280 M	<14 µg/kg	TM116
Toluene	<100 M	<5 µg/kg	TM116
trans-1,3-Dichloropropene	<280	<14 µg/kg	TM116
1,1,2-Trichloroethane	<200 M	<10 µg/kg	TM116

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

VOC MS (S)

Results Legend		Customer Sample R	DRANAGE DITCH 2
#	ISO17025 accredited.		
M	*m*CERTS accredited.		
aq	Aqueous / settled sample.		
diss.filt	Dissolved / filtered sample.	Depth (m)	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid
*	Subcontracted test.	Date Sampled	14/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.
		Date Received	15/06/2013
		SDG Ref	130615-64
(F)	Trigger breach confirmed	Lab Sample No.(s)	7596621
1-4&+§@	Sample deviation (see appendix)	AGS Reference	

Component	LOD/Units	Method	
1,3-Dichloropropane	<7 µg/kg	TM116	<140 #
Tetrachloroethene	<5 µg/kg	TM116	<100 M
Dibromochloromethane	<13 µg/kg	TM116	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116	<240 M
Chlorobenzene	<5 µg/kg	TM116	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<200 M
Ethylbenzene	<4 µg/kg	TM116	<80 M
p/m-Xylene	<14 µg/kg	TM116	<280 #
o-Xylene	<10 µg/kg	TM116	<200 M
Styrene	<10 µg/kg	TM116	<200 M
Bromoform	<10 µg/kg	TM116	<200 M
Isopropylbenzene	<5 µg/kg	TM116	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116	<340 M
Bromobenzene	<10 µg/kg	TM116	<200 M
Propylbenzene	<11 µg/kg	TM116	<220 M
2-Chlorotoluene	<9 µg/kg	TM116	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<160 #
4-Chlorotoluene	<12 µg/kg	TM116	<240 M
tert-Butylbenzene	<12 µg/kg	TM116	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<180 #
sec-Butylbenzene	<10 µg/kg	TM116	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116	<100 M
n-Butylbenzene	<10 µg/kg	TM116	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116	<240
Naphthalene	<13 µg/kg	TM116	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

VOC MS (S)

Results Legend		Customer Sample R	DRANAGE DITCH 2
#	ISO17025 accredited.		
M	*m*CERTS accredited.		
aq	Aqueous / settled sample.		
diss.filt	Dissolved / filtered sample.		
tot.unfilt	Total / unfiltered sample.		
*	Subcontracted test.		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		
(F)	Trigger breach confirmed		
1-4&+§@	Sample deviation (see appendix)		
		Depth (m)	.
		Sample Type	Soil/Solid
		Date Sampled	14/06/2013
		Sample Time	.
		Date Received	15/06/2013
		SDG Ref	130615-64
		Lab Sample No.(s)	7596621
		AGS Reference	

Component	LOD/Units	Method					
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M				

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV134 SOLID 14/06/2013 00:00:00 130615-64 7596614 TM048	24/6/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV135 SOLID 14/06/2013 00:00:00 130615-64 7596615 TM048	24/6/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP1 0.10 SOLID 14/06/2013 00:00:00 130615-64 7607282 TM048	24/6/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP2 0.10 SOLID 14/06/2013 00:00:00 130615-64 7607283 TM048	24/6/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP3 0.10 SOLID 14/06/2013 00:00:00 130615-64 7607285 TM048	24/6/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV134 SOLID 14/06/2013 00:00:00 130615-64 7596614 TM 304	Crocidolite (#)	Loose fibres	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV135 SOLID 14/06/2013 00:00:00 130615-64 7596615 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP1 0.10 SOLID 14/06/2013 00:00:00 130615-64 7607282 TM 304	None (#)	N/C	0.0017 (#)	<0.001 (#)	0.002 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP3 0.10 SOLID 14/06/2013 00:00:00 130615-64 7607285 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Notification of NDPs (No determination possible)

Date Received : 15/06/2013 11:56:29

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
7607282	CHVTP1	0.10	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7607283	CHVTP2	0.10	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7607285	CHVTP3	0.10	Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7596614	CAV134		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
7596615	CAV135		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Test Completion Dates

Lab Sample No(s)	7596614	7596615	7607282	7607283	7607285	7596618	7596621
Customer Sample Ref.	CAV134	CAV135	CHVTP1	CHVTP2	CHVTP3	DRANAGE DITCH 1	DRANAGE DITCH 2
AGS Ref.							
Depth			0.10	0.10	0.10		
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Jun-2013	25-Jun-2013	25-Jun-2013	25-Jun-2013	25-Jun-2013		
Asbestos Quantification - Full	26-Jul-2013	26-Jul-2013	26-Jul-2013		26-Jul-2013		
EPH CWG (Aliphatic) GC (S)	27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	26-Jun-2013	26-Jun-2013
EPH CWG (Aromatic) GC (S)	27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	27-Jun-2013	26-Jun-2013	26-Jun-2013
GRO by GC-FID (S)	27-Jun-2013	01-Jul-2013	30-Jun-2013	30-Jun-2013	30-Jun-2013	30-Jun-2013	01-Jul-2013
Metals in solid samples by OES	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	25-Jun-2013	25-Jun-2013
pH	20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013	20-Jun-2013
Sample description	19-Jun-2013	19-Jun-2013	19-Jun-2013	19-Jun-2013	19-Jun-2013	19-Jun-2013	19-Jun-2013
Semi Volatile Organic Compounds	25-Jun-2013	25-Jun-2013	24-Jun-2013	25-Jun-2013	25-Jun-2013	24-Jun-2013	24-Jun-2013
Total Organic Carbon						25-Jun-2013	25-Jun-2013
Total Organic Carbon (Asb)	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013	26-Jun-2013		
TPH CWG GC (S)	27-Jun-2013	01-Jul-2013	30-Jun-2013	30-Jun-2013	30-Jun-2013	30-Jun-2013	01-Jul-2013
VOC MS (S)	27-Jun-2013	28-Jun-2013	28-Jun-2013	28-Jun-2013	28-Jun-2013	28-Jun-2013	28-Jun-2013

SDG:	130615-64	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0436
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	234948
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	231134

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

Date:	31 July 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130626-22
Your Reference:	Rail Shed
Location:	Coed Darcy
Report No:	235676

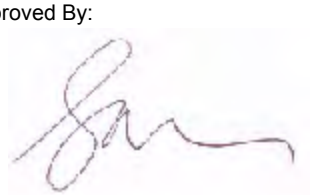
This report has been revised and directly supersedes 232943 in its entirety.

We received 21 samples on Wednesday June 26, 2013 and 21 of these samples were scheduled for analysis which was completed on Wednesday July 31, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7653456	SP77-901			24/06/2013
7653457	SP77-902			24/06/2013
7653458	SP77-903			24/06/2013
7653459	SP77-904			24/06/2013
7653461	SP77-905			24/06/2013
7653450	SP81-901			24/06/2013
7653451	SP81-902			24/06/2013
7653452	SP81-903			24/06/2013
7653453	SP81-904			24/06/2013
7653454	SP81-905			24/06/2013
7653455	SP81-906			24/06/2013
7653462	SP82-901			24/06/2013
7653463	SP82-902			24/06/2013
7653465	SP82-903			24/06/2013
7653468	SP82-904			24/06/2013
7653470	SP83-901			24/06/2013
7653471	SP84-901			24/06/2013
7653473	SP84-902			24/06/2013
7653475	SP85-901			24/06/2013
7653476	SP85-902			24/06/2013
7653477	SP86-901			24/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			7653456			7653457			7653458			7653459			7653461			7653450			7653451			7653452			7653453			7653454			7653455			7653462			7653463			7653465
Customer Sample Reference			SP77-901			SP77-902			SP77-903			SP77-904			SP77-905			SP81-901			SP81-902			SP81-903			SP81-904			SP81-905			SP81-906			SP82-901			SP82-902			SP82-903
AGS Reference																																										
Depth (m)																																										
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 21		X			X			X			X			X			X			X			X			X			X			X			X			X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 5		X						X						X										X																
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 21		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 19				X			X						X			X			X			X			X			X			X			X			X			X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X			X			X			X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X			X			X			X			X			X			X
VOC MS (S)	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X			X			X			X			X			X			X	

ALcontrol Laboratories

CERTIFICATE OF ANALYSIS

Validated

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			7653465		7653468			7653470			7653471			7653473			7653475			7653476			7653477	
Customer Sample Reference			SP82-903		SP82-904			SP83-901			SP84-901			SP84-902			SP85-901			SP85-902			SP86-901	
AGS Reference																								
Depth (m)																								
Container			400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X	
Asbestos Quantification - Full	All	NDPs: 0 Tests: 5										X													
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 21		X			X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 21	X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 19			X			X			X			X			X			X			X		
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 21			X			X			X			X			X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 21		X			X			X			X			X			X			X			X

13:59:18 31/07/2013

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7653456	SP77-901		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7653457	SP77-902		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7653458	SP77-903		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7653459	SP77-904		Light Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7653461	SP77-905		Light Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
7653450	SP81-901		Light Brown	Sand	0.1 - 2 mm	Stones	None
7653451	SP81-902		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7653452	SP81-903		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7653453	SP81-904		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
7653454	SP81-905		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7653455	SP81-906		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7653462	SP82-901		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7653463	SP82-902		Dark Brown	Sand	0.1 - 2 mm	Stones	None
7653465	SP82-903		Dark Brown	Sand	0.1 - 2 mm	Stones	None
7653468	SP82-904		Dark Brown	Sand	0.1 - 2 mm	Stones	None
7653470	SP83-901		Light Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7653471	SP84-901		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
7653473	SP84-902		Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
7653475	SP85-901		Dark Brown	Clay	<0.063 mm	Stones	None
7653476	SP85-902		Dark Brown	Clay	<0.063 mm	Stones	None
7653477	SP86-901		Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.76 #	2.34 #	3.4 #	2.84 #	2.38 #	3.09 #
pH	1 pH Units	TM133		8 M	8.13 M	7.68 M	8.14 M	7.85 M	8.02 M
Arsenic	<0.6 mg/kg	TM181		14.5 M	13.3 M	13.8 M	14.2 M	17.1 M	21.7 M
Cadmium	<0.02 mg/kg	TM181		0.461 M	<0.02 M	0.151 M	0.133 M	0.482 M	0.381 M
Chromium	<0.9 mg/kg	TM181		10.3 M	12.7 M	13.4 M	24.8 M	14.5 M	15.7 M
Copper	<1.4 mg/kg	TM181		39.1 M	28.6 M	39.8 M	23.3 M	44 M	83.8 M
Lead	<0.7 mg/kg	TM181		55.5 M	45.5 M	72.8 M	35.6 M	70.6 M	48.1 M
Mercury	<0.14 mg/kg	TM181		0.16 M	0.169 M	1.61 M	<0.14 M	0.442 M	<1.4 M
Nickel	<0.2 mg/kg	TM181		17.6 M	21.2 M	22.3 M	26.7 M	22.9 M	36.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Zinc	<1.9 mg/kg	TM181		182 M	167 M	245 M	103 M	195 M	198 M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.09 #	3 #	3.02 #	2.64 #	2.95 #	1.74 #
pH	1 pH Units	TM133		7.62 M	8.9 M	8.26 M	7.87 M	7.78 M	8.07 M
Arsenic	<0.6 mg/kg	TM181		17.5 M	12.7 M	19.1 M	13.4 M	17.3 M	10.8 M
Cadmium	<0.02 mg/kg	TM181		0.281 M	1.27 M	0.483 M	0.294 M	0.422 M	0.385 M
Chromium	<0.9 mg/kg	TM181		13.7 M	13.8 M	14.4 M	12.7 M	15.1 M	13.6 M
Copper	<1.4 mg/kg	TM181		31.8 M	29 M	45.3 M	24 M	40.9 M	30 M
Lead	<0.7 mg/kg	TM181		29 M	33.2 M	37.9 M	26.8 M	38.4 M	42.6 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		28.6 M	27.5 M	25.4 M	24.6 M	35.8 M	22.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		98.2 M	107 M	112 M	92.9 M	122 M	108 M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.52 #	2.29 #	1.74 #	4.03 #	2.81 #	2.59 #
pH	1 pH Units	TM133		8.14 M	8.21 M	8.29 M	7.54 M	7.16 M	7.25 M
Arsenic	<0.6 mg/kg	TM181		16.2 M	14.5 M	17 M	21.9 M	27.1 M	29.5 M
Cadmium	<0.02 mg/kg	TM181		0.689 M	0.383 M	0.485 M	1.19 M	0.669 M	0.609 M
Chromium	<0.9 mg/kg	TM181		11.8 M	14 M	14.3 M	20.7 M	14.2 M	14.5 M
Copper	<1.4 mg/kg	TM181		120 M	39.9 M	39.4 M	71.1 M	54.6 M	60.5 M
Lead	<0.7 mg/kg	TM181		132 M	87.4 M	69 M	70.8 M	36.6 M	44.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.153 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		22 M	24.7 M	23.4 M	28.4 M	24.5 M	26.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.15 #	1.33 #	<1 #
Zinc	<1.9 mg/kg	TM181		1020 M	158 M	213 M	345 M	112 M	202 M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP85-901	SP85-902	SP86-901			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	24/06/2013	24/06/2013	24/06/2013			
			Sample Time	.	.	.			
			Date Received	26/06/2013	26/06/2013	26/06/2013			
			SDG Ref	130626-22	130626-22	130626-22			
			Lab Sample No.(s)	7653475	7653476	7653477			
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.9 #	3.07 #	2.84 #			
pH	1 pH Units	TM133		7.41 M	7.1 M	6.98 M			
Arsenic	<0.6 mg/kg	TM181		20.5 M	24.7 M	11.4 M			
Cadmium	<0.02 mg/kg	TM181		0.484 M	0.591 M	0.527 M			
Chromium	<0.9 mg/kg	TM181		11.7 M	13.8 M	15.3 M			
Copper	<1.4 mg/kg	TM181		43.4 M	56.1 M	50 M			
Lead	<0.7 mg/kg	TM181		25.8 M	42.4 M	35.9 M			
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M			
Nickel	<0.2 mg/kg	TM181		21.5 M	24.2 M	20.9 M			
Selenium	<1 mg/kg	TM181		1.05 #	<1 #	<1 #			
Zinc	<1.9 mg/kg	TM181		88.7 M	111 M	121 M			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		140	<100	149	<100	115	301
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100	269	<100	188	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		137	126	324	<100	286	152
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100	231	<100	199	<100
Benzo(a)pyrene	<100 µg/kg	TM157		123	136	351	<100	301	138
Benzo(g,h,i)perylene	<100 µg/kg	TM157		149	162	345	<100	313	<100
Chrysene	<100 µg/kg	TM157		150	122	529	<100	309	408
Fluoranthene	<100 µg/kg	TM157		<100	<100	335	<100	277	<100
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	114	248	<100	236	<100
Phenanthrene	<100 µg/kg	TM157		<100	<100	232	<100	146	124
Pyrene	<100 µg/kg	TM157		147	130	397	119	313	570
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	129
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	148	<100	121	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	139	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		215	429	285	580	457	204
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	116	138
Benzo(b)fluoranthene	<100 µg/kg	TM157		170	164	149	218	206	205
Benzo(k)fluoranthene	<100 µg/kg	TM157		130	121	<100	130	139	148
Benzo(a)pyrene	<100 µg/kg	TM157		180	156	137	178	188	209
Benzo(g,h,i)perylene	<100 µg/kg	TM157		145	<100	<100	133	132	187
Chrysene	<100 µg/kg	TM157		349	249	234	282	295	207
Fluoranthene	<100 µg/kg	TM157		<100	<100	<100	141	131	198
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100	113	<100	151
Phenanthrene	<100 µg/kg	TM157		<100	141	<100	167	132	162
Pyrene	<100 µg/kg	TM157		429	308	322	335	352	322
Naphthalene	<100 µg/kg	TM157		<100	180	<100	195	185	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	128
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	222	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		187	185	295	733	<100	405
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	118	189	<100	<100	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		123	158	256	<100	<100	136
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	116	196	<100	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		124	174	284	<100	<100	146
Benzo(g,h,i)perylene	<100 µg/kg	TM157		125	177	307	<100	<100	<100
Chrysene	<100 µg/kg	TM157		145	190	286	164	<100	241
Fluoranthene	<100 µg/kg	TM157		135	173	310	<100	<100	<100
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	131	226	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		138	158	253	<100	<100	150
Pyrene	<100 µg/kg	TM157		137	166	314	172	<100	269
Naphthalene	<100 µg/kg	TM157		<100	<100	114	177	<100	163
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP85-901	SP85-902	SP86-901			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	24/06/2013	24/06/2013	24/06/2013			
			Sample Time	.	.	.			
			Date Received	26/06/2013	26/06/2013	26/06/2013			
			SDG Ref	130626-22	130626-22	130626-22			
			Lab Sample No.(s)	7653475	7653476	7653477			
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100			
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100			
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100			
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100			
Isophorone	<100 µg/kg	TM157		<100	<100	<100			
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
n-Dibutyl phthalate	<100 µg/kg	TM157		125	<100	<100			
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100			
Carbazole	<100 µg/kg	TM157		<100	<100	<100			
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100			
Azobenzene	<100 µg/kg	TM157		<100	<100	<100			
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100			
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100			
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100			
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100			
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100			
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100			
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100			
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100			
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP85-901	SP85-902	SP86-901			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	24/06/2013	24/06/2013	24/06/2013			
			Sample Time	.	.	.			
			Date Received	26/06/2013	26/06/2013	26/06/2013			
			SDG Ref	130626-22	130626-22	130626-22			
			Lab Sample No.(s)	7653475	7653476	7653477			
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100			
2-Methylnaphthalene	<100 µg/kg	TM157		460	138	623			
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100			
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100			
Anthracene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(b)fluoranthene	<100 µg/kg	TM157		153	<100	<100			
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(a)pyrene	<100 µg/kg	TM157		145	122	<100			
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	<100			
Chrysene	<100 µg/kg	TM157		302	230	116			
Fluoranthene	<100 µg/kg	TM157		116	148	<100			
Fluorene	<100 µg/kg	TM157		<100	<100	<100			
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100			
Phenanthrene	<100 µg/kg	TM157		169	<100	126			
Pyrene	<100 µg/kg	TM157		354	522	<100			
Naphthalene	<100 µg/kg	TM157		183	<100	<100			
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		68	67	80	110	61	40
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		291000 M	2960 M	527 M	180 M	1760 M	533 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<25 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M
Benzene	<10 µg/kg	TM089		202 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M
Toluene	<2 µg/kg	TM089		<10 ♦ M	<2 ♦ M	<2 ♦ M	<2 ♦ M	<2 ♦ M	<2 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<15 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<30 ♦ M	<6 ♦ M	<6 ♦ M	<6 ♦ M	<6 ♦ M	<6 ♦ M
o-Xylene	<3 µg/kg	TM089		<15 ♦ M	<3 ♦ M	3.48 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		202	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		323	<10	<10	<10	<10	17.3
Aliphatics >C6-C8	<10 µg/kg	TM089		52800	85.1	18.6	15.8	43.7	46.5
Aliphatics >C8-C10	<10 µg/kg	TM089		122000	678	41.8	41.8	334	64.9
Aliphatics >C10-C12	<10 µg/kg	TM089		20900	1040	255	49.7	692	210
Aliphatics >C12-C16	<100 µg/kg	TM173		88200	51100	215000	25200	93900	112000
Aliphatics >C16-C21	<100 µg/kg	TM173		236000	174000	554000	99300	255000	533000
Aliphatics >C21-C35	<100 µg/kg	TM173		628000	383000	939000	235000	502000	1430000
Aliphatics >C35-C44	<100 µg/kg	TM173		286000	86000	389000	85600	137000	491000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1240000	694000	2100000	445000	988000	2560000
Aromatics >EC5-EC7	<10 µg/kg	TM089		202	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<50	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		81100	451	32.5	30.5	222	47.6
Aromatics >EC10-EC12	<10 µg/kg	TM089		13900	696	171	32.8	461	141
Aromatics >EC12-EC16	<100 µg/kg	TM173		13000	5540	52600	5120	24300	29700
Aromatics >EC16-EC21	<100 µg/kg	TM173		103000	51800	268000	37000	128000	236000
Aromatics >EC21-EC35	<100 µg/kg	TM173		554000	294000	969000	194000	536000	910000
Aromatics >EC35-EC44	<100 µg/kg	TM173		303000	112000	540000	121000	242000	317000
Aromatics >EC40-EC44	<100 µg/kg	TM173		124000	45900	236000	47600	98600	126000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		973000	463000	1830000	358000	930000	1490000
Total Aliphatics >C5-35	<100 µg/kg	TM173		1150000	610000	1710000	360000	852000	2070000
Total Aromatics >C5-35	<100 µg/kg	TM173		765000	352000	1290000	237000	688000	1180000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1910000	962000	3000000	596000	1540000	3250000

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend		Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
		SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
(F)	Trigger breach confirmed	Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2500000	1160000	3930000	803000	1920000	4060000

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		86	53	54	46	68	59
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		16600 M	2180 M	4410 M	2650 M	1210 M	3030 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M
Benzene	<10 µg/kg	TM089		<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M
Toluene	<2 µg/kg	TM089		<2 ♦ M	<2 ♦ M	<2 ♦ M	<2 ♦ M	2.26 ♦ M	<2 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<6 ♦ M	<6 ♦ M	<6 ♦ M	6.78 ♦ M	<6 ♦ M
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	10.2 ♦ M	<3 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	17	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		31.9	14.4	18.2	16.7	27.1	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		661	33.3	76.4	50	52	23
Aliphatics >C8-C10	<10 µg/kg	TM089		4580	213	733	292	101	321
Aliphatics >C10-C12	<10 µg/kg	TM089		4970	1060	1860	1260	558	1470
Aliphatics >C12-C16	<100 µg/kg	TM173		191000	230000	234000	228000	325000	92300
Aliphatics >C16-C21	<100 µg/kg	TM173		494000	474000	564000	527000	658000	238000
Aliphatics >C21-C35	<100 µg/kg	TM173		1090000	805000	1270000	990000	1200000	347000
Aliphatics >C35-C44	<100 µg/kg	TM173		370000	214000	360000	269000	345000	97100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2150000	1720000	2430000	2010000	2520000	774000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		3050	145	488	200	87	218
Aromatics >EC10-EC12	<10 µg/kg	TM089		3320	709	1240	837	372	982
Aromatics >EC12-EC16	<100 µg/kg	TM173		37700	37300	31100	33800	43200	16600
Aromatics >EC16-EC21	<100 µg/kg	TM173		232000	197000	222000	196000	231000	90100
Aromatics >EC21-EC35	<100 µg/kg	TM173		890000	613000	911000	651000	740000	299000
Aromatics >EC35-EC44	<100 µg/kg	TM173		348000	253000	317000	236000	276000	134000
Aromatics >EC40-EC44	<100 µg/kg	TM173		146000	106000	125000	92300	111000	56000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1510000	1100000	1480000	1120000	1290000	540000
Total Aliphatics >C5-35	<100 µg/kg	TM173		1790000	1510000	2070000	1750000	2180000	679000
Total Aromatics >C5-35	<100 µg/kg	TM173		1170000	849000	1170000	881000	1010000	407000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		2950000	2360000	3230000	2630000	3190000	1090000

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend		Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
		SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
(F)	Trigger breach confirmed	Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	3670000	2830000	3910000	3130000	3810000	1320000

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		68	73	73	71	65	48
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		144 M	485 M	<44 M	<44 M	4070 M	5430 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M
Benzene	<10 µg/kg	TM089		<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M
Toluene	<2 µg/kg	TM089		<2 ♦ M	<2 ♦ M	<2 ♦ M	<2 ♦ M	<2 ♦ M	<2 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<6 ♦ M	<6 ♦ M	<6 ♦ M	<6 ♦ M	<6 ♦ M
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	4.37 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	<10	<10	20.7	16
Aliphatics >C6-C8	<10 µg/kg	TM089		15.2	21.9	<10	<10	62.1	103
Aliphatics >C8-C10	<10 µg/kg	TM089		18.5	66.7	<10	<10	503	950
Aliphatics >C10-C12	<10 µg/kg	TM089		54.3	203	<10	<10	1880	2230
Aliphatics >C12-C16	<100 µg/kg	TM173		50400	52000	63700	85800	273000	267000
Aliphatics >C16-C21	<100 µg/kg	TM173		216000	178000	199000	416000	464000	437000
Aliphatics >C21-C35	<100 µg/kg	TM173		412000	272000	286000	624000	822000	767000
Aliphatics >C35-C44	<100 µg/kg	TM173		124000	73800	76000	227000	239000	218000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		802000	576000	624000	1350000	1800000	1690000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		14.1	50.3	<10	<10	339	633
Aromatics >EC10-EC12	<10 µg/kg	TM089		36.9	136	<10	<10	1250	1490
Aromatics >EC12-EC16	<100 µg/kg	TM173		7740	5630	16800	44600	<200	42500
Aromatics >EC16-EC21	<100 µg/kg	TM173		96300	50300	94200	339000	188000	204000
Aromatics >EC21-EC35	<100 µg/kg	TM173		438000	226000	343000	688000	743000	702000
Aromatics >EC35-EC44	<100 µg/kg	TM173		202000	107000	171000	412000	324000	293000
Aromatics >EC40-EC44	<100 µg/kg	TM173		89400	46100	73200	211000	132000	118000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		744000	389000	625000	1480000	1250000	1240000
Total Aliphatics >C5-35	<100 µg/kg	TM173		679000	502000	548000	1130000	1560000	1470000
Total Aromatics >C5-35	<100 µg/kg	TM173		542000	282000	454000	1070000	932000	951000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1220000	784000	1000000	2200000	2490000	2430000

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend		Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-4&+§@	Sample deviation (see appendix)							
		Depth (m)	.	.	.	.	.	.
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
		Sample Time	.	.	.	.	.	.
		Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
		SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
		Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
		AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1550000	965000	1250000	2840000	3060000	2940000

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP85-901	SP85-902	SP86-901			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	24/06/2013	24/06/2013	24/06/2013			
			Sample Time	.	.	.			
			Date Received	26/06/2013	26/06/2013	26/06/2013			
			SDG Ref	130626-22	130626-22	130626-22			
			Lab Sample No.(s)	7653475	7653476	7653477			
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		90	73	46			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		133000 M	12500 M	570 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		77.5 ♦ M	<5 ♦ M	<5 ♦ M			
Benzene	<10 µg/kg	TM089		<50 ♦ M	<10 ♦ M	<10 ♦ M			
Toluene	<2 µg/kg	TM089		<10 ♦ M	<2 ♦ M	<2 ♦ M			
Ethylbenzene	<3 µg/kg	TM089		<15 ♦ M	<3 ♦ M	<3 ♦ M			
m,p-Xylene	<6 µg/kg	TM089		<30 ♦ M	<6 ♦ M	<6 ♦ M			
o-Xylene	<3 µg/kg	TM089		<15 ♦ M	<3 ♦ M	<3 ♦ M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9			
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24			
Aliphatics >C5-C6	<10 µg/kg	TM089		310	36	<10			
Aliphatics >C6-C8	<10 µg/kg	TM089		15500	422	16.5			
Aliphatics >C8-C10	<10 µg/kg	TM089		35000	3180	66			
Aliphatics >C10-C12	<10 µg/kg	TM089		35200	4040	261			
Aliphatics >C12-C16	<100 µg/kg	TM173		490000	280000	111000			
Aliphatics >C16-C21	<100 µg/kg	TM173		614000	435000	348000			
Aliphatics >C21-C35	<100 µg/kg	TM173		890000	753000	1530000			
Aliphatics >C35-C44	<100 µg/kg	TM173		231000	209000	488000			
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2230000	1680000	2480000			
Aromatics >EC5-EC7	<10 µg/kg	TM089		50.2	<10	<10			
Aromatics >EC7-EC8	<10 µg/kg	TM089		<50	<10	<10			
Aromatics >EC8-EC10	<10 µg/kg	TM089		23300	2120	45.1			
Aromatics >EC10-EC12	<10 µg/kg	TM089		23400	2700	174			
Aromatics >EC12-EC16	<100 µg/kg	TM173		113000	61100	53100			
Aromatics >EC16-EC21	<100 µg/kg	TM173		319000	238000	240000			
Aromatics >EC21-EC35	<100 µg/kg	TM173		805000	799000	1500000			
Aromatics >EC35-EC44	<100 µg/kg	TM173		315000	307000	782000			
Aromatics >EC40-EC44	<100 µg/kg	TM173		125000	121000	330000			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1550000	1400000	2570000			
Total Aliphatics >C5-35	<100 µg/kg	TM173		2080000	1480000	1990000			
Total Aromatics >C5-35	<100 µg/kg	TM173		1280000	1100000	1790000			
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		3360000	2580000	3780000			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

TPH CWG (S)

Results Legend		Customer Sample R	SP85-901	SP85-902	SP86-901			
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.			
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
*	Subcontracted test.	Date Sampled	24/06/2013	24/06/2013	24/06/2013			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.			
		Date Received	26/06/2013	26/06/2013	26/06/2013			
		SDG Ref	130626-22	130626-22	130626-22			
(F)	Trigger breach confirmed	Lab Sample No.(s)	7653475	7653476	7653477			
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	3910000	3090000	5050000			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
			AGS Reference						
Dibromofluoromethane**	%	TM116		106 ♦	106 ♦	106 ♦	106 ♦	106 ♦	101 ♦
Toluene-d8**	%	TM116		99.7 ♦	99.5 ♦	99.9 ♦	95.1 ♦	99.3 ♦	97.3 ♦
4-Bromofluorobenzene**	%	TM116		108 ♦	109 ♦	105 ♦	137 ♦	103 ♦	112 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M	<4 ♦ M	<80 ♦ M	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<140 ♦	<7 ♦	<140 ♦	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<200 ♦	<10 ♦	<200 ♦	<200 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<13 ♦ M	<260 ♦ M	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<6 ♦ M	<120 ♦ M	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<10 ♦ #	<200 ♦ #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<7 ♦ M	<140 ♦ M	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	17.1 ♦ #	<200 ♦ #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M	<8 ♦ M	<160 ♦ M	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M	<8 ♦ M	<160 ♦ M	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<7 ♦ M	<140 ♦ M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M
Benzene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<9 ♦ M	<180 ♦ M	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<9 ♦ M	<180 ♦ M	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<9 ♦ M	<180 ♦ M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<7 ♦ M	<140 ♦ M	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M
Toluene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<280 ♦	<280 ♦	<280 ♦	<14 ♦	<280 ♦	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<140 ♦ #	<7 ♦ #	<140 ♦ #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<13 ♦ M	<260 ♦ M	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M	<4 ♦ M	<80 ♦ M	<80 ♦ M
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ #	<280 ♦ #	<14 ♦ #	<280 ♦ #	<280 ♦ #
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M
Styrene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<10 ♦ #	<200 ♦ #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<340 ♦ M	<340 ♦ M	<17 ♦ M	<340 ♦ M	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<9 ♦ M	<180 ♦ M	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<160 ♦ #	<8 ♦ #	<160 ♦ #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<240 ♦ #	<12 ♦ #	<240 ♦ #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ #	<180 ♦ #	<9 ♦ #	<180 ♦ #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<6 ♦ M	<120 ♦ M	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<300 ♦	<15 ♦	<300 ♦	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<120 ♦ #	<6 ♦ #	<120 ♦ #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<240 ♦	<12 ♦	<240 ♦	<240 ♦
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<13 ♦ M	<260 ♦ M	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend		Customer Sample R	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.	.	.
		Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
		SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
(F)	Trigger breach confirmed	Lab Sample No.(s)	7653456	7653457	7653458	7653459	7653461	7653450
1-4&♦§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 ♦ M	<120 ♦ M	<120 ♦ M	<6 ♦ M	<120 ♦ M	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
			AGS Reference						
Dibromofluoromethane**	%	TM116		98.8 ♦	115 ♦	108 ♦	106 ♦	98.4 ♦	118 ♦
Toluene-d8**	%	TM116		99.3 ♦	100 ♦	99.8 ♦	99.1 ♦	97.7 ♦	101 ♦
4-Bromofluorobenzene**	%	TM116		109 ♦	110 ♦	106 ♦	104 ♦	109 ♦	104 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<140 ♦	<140 ♦	<140 ♦	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<200 ♦	<200 ♦	<200 ♦	<200 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Benzene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Toluene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<280 ♦	<280 ♦	<280 ♦	<280 ♦	<280 ♦	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Styrene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ #	<180 ♦ #	<180 ♦ #	<180 ♦ #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<300 ♦	<300 ♦	<300 ♦	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<240 ♦	<240 ♦	<240 ♦	<240 ♦
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP81-902	SP81-903	SP81-904	SP81-905	SP81-906	SP82-901
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653451	7653452	7653453	7653454	7653455	7653462
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
			AGS Reference						
Dibromofluoromethane**	%	TM116		99.4 ♦	98.7 ♦	99.8 ♦	98.8 ♦	110 ♦	98.7 ♦
Toluene-d8**	%	TM116		98.2 ♦	98.1 ♦	95.7 ♦	98.6 ♦	99.5 ♦	98.4 ♦
4-Bromofluorobenzene**	%	TM116		106 ♦	106 ♦	131 ♦	108 ♦	109 ♦	113 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<4 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<7 ♦	<140 ♦	<140 ♦	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<10 ♦	<200 ♦	<200 ♦	<200 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<13 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<6 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<10 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<7 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	12.2 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<8 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<8 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<7 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Benzene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	20.2 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<9 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<9 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<7 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Toluene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	40.6 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<280 ♦	<280 ♦	<14 ♦	<280 ♦	<280 ♦	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<7 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<13 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	7.14 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ #	<14 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Styrene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<10 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<340 ♦ M	<17 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<9 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<8 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<12 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ #	<9 ♦ #	<180 ♦ #	<180 ♦ #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<11 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<6 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<5 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<10 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<12 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<14 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<15 ♦	<300 ♦	<300 ♦	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<6 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<12 ♦	<240 ♦	<240 ♦	<240 ♦
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<13 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013	24/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			SDG Ref	130626-22	130626-22	130626-22	130626-22	130626-22	130626-22
			Lab Sample No.(s)	7653463	7653465	7653468	7653470	7653471	7653473
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<6 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP85-901	SP85-902	SP86-901			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	24/06/2013	24/06/2013	24/06/2013			
			Sample Time	.	.	.			
			Date Received	26/06/2013	26/06/2013	26/06/2013			
			SDG Ref	130626-22	130626-22	130626-22			
			Lab Sample No.(s)	7653475	7653476	7653477			
			AGS Reference						
Dibromofluoromethane**	%	TM116		97.2 ♦	98.9 ♦	114 ♦			
Toluene-d8**	%	TM116		98 ♦	98.3 ♦	99.7 ♦			
4-Bromofluorobenzene**	%	TM116		110 ♦	110 ♦	109 ♦			
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M			
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<140 ♦			
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<200 ♦			
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M			
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M			
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M			
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #			
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M			
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #			
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M			
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M			
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M			
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M			
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M			
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M			
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M			
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M			
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M			
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M			
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M			
Benzene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M			
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M			
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M			
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M			
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M			
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M			
Toluene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M			
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<280 ♦	<280 ♦	<280 ♦			
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP85-901	SP85-902	SP86-901			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	24/06/2013	24/06/2013	24/06/2013			
			Sample Time	.	.	.			
			Date Received	26/06/2013	26/06/2013	26/06/2013			
			SDG Ref	130626-22	130626-22	130626-22			
			Lab Sample No.(s)	7653475	7653476	7653477			
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<140 ♦ #			
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M			
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M			
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M			
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M			
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M			
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ #	<280 ♦ #			
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			
Styrene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M			
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #			
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<340 ♦ M	<340 ♦ M			
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M			
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M			
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<160 ♦ #			
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M			
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<240 ♦ #			
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ #	<180 ♦ #			
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M			
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M			
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M			
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M			
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M			
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M			
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<300 ♦			
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<120 ♦ #			
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<240 ♦			
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

VOC MS (S)

Results Legend		Customer Sample R	SP85-901	SP85-902	SP86-901			
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.			
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
*	Subcontracted test.	Date Sampled	24/06/2013	24/06/2013	24/06/2013			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.			
		Date Received	26/06/2013	26/06/2013	26/06/2013			
		SDG Ref	130626-22	130626-22	130626-22			
(F)	Trigger breach confirmed	Lab Sample No.(s)	7653475	7653476	7653477			
1-4&♦§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 ♦ M	<120 ♦ M	<120 ♦ M			

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-901 SOLID 24/06/2013 00:00:00 130626-22 7653456 TM048	9/7/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-902 SOLID 24/06/2013 00:00:00 130626-22 7653457 TM048	9/7/13	Paul Fenney	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-903 SOLID 24/06/2013 00:00:00 130626-22 7653458 TM048	9/7/13	Kevin Bowron	Soil containing loose fibres and material typical of AI	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-904 SOLID 24/06/2013 00:00:00 130626-22 7653459 TM048	9/7/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-905 SOLID 24/06/2013 00:00:00 130626-22 7653461 TM048	9/7/13	Kevin Bowron	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP81-901 SOLID 24/06/2013 00:00:00 130626-22 7653450 TM048	9/7/13	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP81-902 SOLID 24/06/2013 00:00:00 130626-22 7653451 TM048	9/7/13	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP81-903 SOLID 24/06/2013 00:00:00 130626-22 7653452 TM048	9/7/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP81-904 SOLID 24/06/2013 00:00:00 130626-22 7653453 TM048	9/7/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP81-905 SOLID 24/06/2013 00:00:00 130626-22 7653454 TM048	9/7/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP81-906 SOLID 24/06/2013 00:00:00 130626-22 7653455 TM048	9/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP82-901 SOLID 24/06/2013 00:00:00 130626-22 7653462 TM048	9/7/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP82-902 SOLID 24/06/2013 00:00:00 130626-22 7653463 TM048	9/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP82-903 SOLID 24/06/2013 00:00:00 130626-22 7653465 TM048	9/7/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP82-904 SOLID 24/06/2013 00:00:00 130626-22 7653468 TM048	9/7/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP83-901 SOLID 24/06/2013 00:00:00 130626-22 7653470 TM048	9/7/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP84-901 SOLID 24/06/2013 00:00:00 130626-22 7653471 TM048	9/7/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP84-902 SOLID 24/06/2013 00:00:00 130626-22 7653473 TM048	9/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP85-901 SOLID 24/06/2013 00:00:00 130626-22 7653475 TM048	9/7/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP85-902 SOLID 24/06/2013 00:00:00 130626-22 7653476 TM048	9/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP86-901 SOLID 24/06/2013 00:00:00 130626-22 7653477 TM048	9/7/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-901 SOLID 24/06/2013 00:00:00 130626-22 7653456 TM 304	Amosite (#)	N/C	<0.001 (#)	<0.001 (#)	0.0012 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-903 SOLID 24/06/2013 00:00:00 130626-22 7653458 TM 304	None (#)	N/C	0.0491 (#)	<0.001 (#)	0.0494 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP77-905 SOLID 24/06/2013 00:00:00 130626-22 7653461 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP81-903 SOLID 24/06/2013 00:00:00 130626-22 7653452 TM 304	None (#)	Fibres found during gravimetric analysis but too few/small to accurately weigh.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP84-901 SOLID 24/06/2013 00:00:00 130626-22 7653471 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Test Completion Dates

Lab Sample No(s)	7653456	7653457	7653458	7653459	7653461	7653450	7653451	7653452	7653453	7653454
Customer Sample Ref.	SP77-901	SP77-902	SP77-903	SP77-904	SP77-905	SP81-901	SP81-902	SP81-903	SP81-904	SP81-905
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	10-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013
Asbestos Quantification - Full	31-Jul-2013		31-Jul-2013		31-Jul-2013			31-Jul-2013		
EPH CWG (Aliphatic) GC (S)	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	08-Jul-2013	09-Jul-2013	10-Jul-2013	10-Jul-2013	09-Jul-2013	09-Jul-2013
EPH CWG (Aromatic) GC (S)	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	08-Jul-2013	09-Jul-2013	10-Jul-2013	10-Jul-2013	09-Jul-2013	09-Jul-2013
GRO by GC-FID (S)	11-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013
Metals in solid samples by OES	09-Jul-2013	09-Jul-2013	09-Jul-2013	08-Jul-2013	05-Jul-2013	09-Jul-2013	08-Jul-2013	04-Jul-2013	09-Jul-2013	09-Jul-2013
pH	03-Jul-2013	03-Jul-2013	03-Jul-2013	04-Jul-2013	04-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013
Sample description	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013
Semi Volatile Organic Compounds	07-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013	06-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013
Total Organic Carbon	09-Jul-2013	09-Jul-2013	09-Jul-2013	08-Jul-2013	05-Jul-2013	09-Jul-2013	09-Jul-2013	05-Jul-2013	09-Jul-2013	09-Jul-2013
TPH CWG GC (S)	11-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013
VOC MS (S)	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	12-Jul-2013	12-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013

Lab Sample No(s)	7653455	7653462	7653463	7653465	7653468	7653470	7653471	7653473	7653475	7653476
Customer Sample Ref.	SP81-906	SP82-901	SP82-902	SP82-903	SP82-904	SP83-901	SP84-901	SP84-902	SP85-901	SP85-902
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	09-Jul-2013	09-Jul-2013	10-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013
Asbestos Quantification - Full							31-Jul-2013			
EPH CWG (Aliphatic) GC (S)	09-Jul-2013	08-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013
EPH CWG (Aromatic) GC (S)	09-Jul-2013	08-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013
GRO by GC-FID (S)	11-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013
Metals in solid samples by OES	09-Jul-2013	05-Jul-2013	09-Jul-2013	09-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013
pH	03-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013	04-Jul-2013
Sample description	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013	02-Jul-2013
Semi Volatile Organic Compounds	07-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013	07-Jul-2013	06-Jul-2013	06-Jul-2013	06-Jul-2013
Total Organic Carbon	09-Jul-2013	05-Jul-2013	09-Jul-2013	09-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	08-Jul-2013	08-Jul-2013	05-Jul-2013
TPH CWG GC (S)	11-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013
VOC MS (S)	12-Jul-2013	11-Jul-2013	12-Jul-2013	12-Jul-2013	11-Jul-2013	12-Jul-2013	11-Jul-2013	12-Jul-2013	12-Jul-2013	12-Jul-2013

Lab Sample No(s)	7653477
Customer Sample Ref.	SP86-901
AGS Ref.	
Depth	
Type	SOLID
Asbestos ID in Solid Samples	09-Jul-2013
EPH CWG (Aliphatic) GC (S)	10-Jul-2013
EPH CWG (Aromatic) GC (S)	10-Jul-2013
GRO by GC-FID (S)	11-Jul-2013
Metals in solid samples by OES	04-Jul-2013
pH	04-Jul-2013
Sample description	02-Jul-2013
Semi Volatile Organic Compounds	06-Jul-2013
Total Organic Carbon	05-Jul-2013
TPH CWG GC (S)	11-Jul-2013
VOC MS (S)	11-Jul-2013

SDG:	130626-22	**Location:**	Coed Darcy	**Order Number:**	CD0445
Job:	H_ATKINS_LDC-172	**Customer:**	Atkins Global Ltd	**Report Number:**	235676
Client Reference:	Rail Shed	**Attention:**	Adam Putt	**Superseded Report:**	232943

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

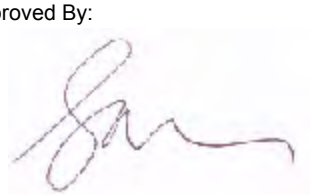
Date:	01 August 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130627-57
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	235962

We received 20 samples on Thursday June 27, 2013 and 20 of these samples were scheduled for analysis which was completed on Thursday August 01, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7663284	CAV139		0.40	26/06/2013
7663286	CAV139		1.90	26/06/2013
7663287	CAV140		0.35	26/06/2013
7663288	CAV140		2.80	26/06/2013
7663289	CAV141		0.30	26/06/2013
7663290	CAV141		2.00	26/06/2013
7663291	CAV142		0.40	26/06/2013
7663292	CAV142		2.50	26/06/2013
7663295	CAV143		0.20	26/06/2013
7663296	CAV143		2.20	26/06/2013
7663297	CAV144		0.35	26/06/2013
7663298	CAV144		1.80	26/06/2013
7663299	CAV145		0.30	26/06/2013
7663300	CAV145		2.00	26/06/2013
7663301	CAV146		0.20	26/06/2013
7663302	CAV146		1.90	26/06/2013
7663293	CAV147		0.45	26/06/2013
7663294	CAV147		2.20	26/06/2013
7663303	CHVTP5		0.30	26/06/2013
7663304	CHVTP5		2.50	26/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)			7663284			7663286			7663287			7663288			7663289			7663290			7663291			7663292			7663295			7663296			7663297			7663298			7663299			7663300
Customer Sample Reference			CAV139			CAV139			CAV140			CAV140			CAV141			CAV141			CAV142			CAV142			CAV143			CAV143			CAV144			CAV144			CAV145			CAV145
AGS Reference																																										
Depth (m)			0.40			1.90			0.35			2.80			0.30			2.00			0.40			2.50			0.20			2.20			0.35			1.80			0.30			2.00
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 20		X			X			X			X			X			X			X			X			X			X			X			X			X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9								X						X						X						X						X						X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 20	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 20	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 20			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 20	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 20		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 20	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 20	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 20	X			X			X			X			X			X			X			X			X			X			X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 20	X			X			X			X			X			X			X			X			X			X			X			X			X			X
VOC MS (S)	All	NDPs: 0 Tests: 20			X			X			X			X			X			X			X			X			X			X			X			X			X	

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		7663300	CAV145		2.00	400g Tub (ALE214)
		7663301	CAV146		0.20	60g VOC (ALE215)
		7663302	CAV146		1.90	250g Amber Jar (AL
		7663293	CAV147		0.45	400g Tub (ALE214)
		7663294	CAV147		2.20	60g VOC (ALE215)
		7663303	CHVTP5		0.30	250g Amber Jar (AL
		7663304	CHVTP5		2.50	400g Tub (ALE214)
						60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 20		X X X X X X X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9		X X X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 20		X X X X X X X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 20		X X X X X X X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 20		X X X X X X X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 20		X X X X X X X		
PCBs by GCMS	All	NDPs: 0 Tests: 4		X X X X		
pH	All	NDPs: 0 Tests: 20		X X X X X X X		
Sample description	All	NDPs: 0 Tests: 20		X X X X X X X		
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 20		X X X X X X X		
Total Organic Carbon	All	NDPs: 0 Tests: 20		X X X X X X X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 20		X X X X X X X		
VOC MS (S)	All	NDPs: 0 Tests: 20		X X X X X X X		

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7663284	CAV139	0.40	Dark Brown	Silt Loam	0.063 - 0.1 mm	Vegetation	Stones
7663286	CAV139	1.90	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
7663287	CAV140	0.35	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
7663288	CAV140	2.80	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
7663289	CAV141	0.30	Dark Brown	Stone/Soil	2 - 10 mm	Stones	Brick
7663290	CAV141	2.00	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Oil/Petroleum	Stones
7663291	CAV142	0.40	Dark Brown	Stone/Soil	2 - 10 mm	Stones	None
7663292	CAV142	2.50	Light Brown	Silty Clay	0.063 - 0.1 mm	Vegetation	Stones
7663295	CAV143	0.20	Black	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
7663296	CAV143	2.20	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Vegetation	Stones
7663297	CAV144	0.35	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7663298	CAV144	1.80	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
7663299	CAV145	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7663300	CAV145	2.00	Dark Brown	Shale	0.063 - 0.1 mm	Stones	Vegetation
7663301	CAV146	0.20	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7663302	CAV146	1.90	Black	Silty Clay	0.063 - 0.1 mm	Stones	None
7663293	CAV147	0.45	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
7663294	CAV147	2.20	Black	Silt Loam	0.063 - 0.1 mm	Stones	None
7663303	CHVTP5	0.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
7663304	CHVTP5	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
			Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		8.17 #	1.29 #	2.59 #	1.26 #	9.26 #	2.33 #
pH	1 pH Units	TM133		7.68 M	6.48 M	6.59 M	6.71 M	8.11 M	7.41 M
Arsenic	<0.6 mg/kg	TM181		41.8 M	8.66 M	61.5 M	8.88 M	18.2 M	16.4 M
Cadmium	<0.02 mg/kg	TM181		0.813 M	0.104 M	0.372 M	0.554 M	0.392 M	1.16 M
Chromium	<0.9 mg/kg	TM181		14.9 M	14.4 M	14.8 M	11.2 M	17.9 M	14.8 M
Copper	<1.4 mg/kg	TM181		120 M	18.6 M	73.7 M	17.6 M	82.5 M	46.6 M
Lead	<0.7 mg/kg	TM181		121 M	19.1 M	31.7 M	30.3 M	143 M	67.9 M
Mercury	<0.14 mg/kg	TM181		0.392 M	0.25 M	0.2 M	<0.14 M	0.474 M	0.587 M
Nickel	<0.2 mg/kg	TM181		15.8 M	22.2 M	19.7 M	20.7 M	23.6 M	15.3 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.18 #	<1 #	<1 #	1.13 #
Zinc	<1.9 mg/kg	TM181		425 M	74.8 M	466 M	63 M	174 M	142 M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
			Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		14.1 #	1.01 #	14.3 #	5.43 #	10.9 #	13.4 #
pH	1 pH Units	TM133		7.74 #	7.86 M	8.6 M	7.81 M	8.39 M	8.61 M
Arsenic	<0.6 mg/kg	TM181		9.08 #	8.38 M	77 M	53.6 M	229 M	195 M
Cadmium	<0.02 mg/kg	TM181		0.238 #	0.799 M	1.86 M	2.65 M	2.52 M	2.65 M
Chromium	<0.9 mg/kg	TM181		14.8 #	11.7 M	14.9 M	7.08 M	15.1 M	18 M
Copper	<1.4 mg/kg	TM181		33.7 #	13.8 M	312 M	161 M	486 M	637 M
Lead	<0.7 mg/kg	TM181		43.2 #	14.1 M	1900 M	175 M	5830 M	3920 M
Mercury	<0.14 mg/kg	TM181		1.7 #	<0.14 M	7.85 M	3.36 M	78.9 M	43.9 M
Nickel	<0.2 mg/kg	TM181		31.8 #	20.1 M	24 M	14.2 M	28.1 M	34.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	16.6 #	1.81 #	51.8 #	34.5 #
Zinc	<1.9 mg/kg	TM181		118 #	76 M	303 M	377 M	652 M	1330 M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147
			Depth (m)	0.30	2.00	0.20	1.90	0.45	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663299	7663300	7663301	7663302	7663293	7663294
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		5.97 #	3.17 #	2.55 #	39.3 #	5.86 #	10.1 #
pH	1 pH Units	TM133		8.39 M	6.87 #	9.96 M	6.51 M	8.82 M	6.83 M
PCB congener 118	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 81	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 77	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 123	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 114	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 105	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 126	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 167	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 156	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 157	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 169	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
PCB congener 189	<3 µg/kg	TM168				<3 & M	<3 M	<3 & M	<3 M
Sum of detected WHO 12 PCBs	<36 µg/kg	TM168				<36	<36	<36	<36
Arsenic	<0.6 mg/kg	TM181		17.1 M	13.7 #	7.57 M	76.7 M	17.6 M	26.1 M
Cadmium	<0.02 mg/kg	TM181		1.45 M	0.421 #	0.788 M	0.583 M	0.791 M	2.4 M
Chromium	<0.9 mg/kg	TM181		12.8 M	17 #	12.9 M	5.01 M	18.9 M	9.66 M
Copper	<1.4 mg/kg	TM181		70.3 M	33.1 #	44.5 M	209 M	54.7 M	58.7 M
Lead	<0.7 mg/kg	TM181		115 M	28.4 #	23.6 M	49.7 M	254 M	30.5 M
Mercury	<0.14 mg/kg	TM181		0.376 M	<0.14 #	0.391 M	<0.14 M	0.987 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		27.3 M	22 #	25.8 M	11.1 M	34.3 M	15.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.92 #	<1 #	3.79 #
Zinc	<1.9 mg/kg	TM181		302 M	106 #	92 M	65.7 M	237 M	174 M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP5	CHVTP5				
			Depth (m)	0.30	2.50				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-57	130627-57				
			Lab Sample No.(s)	7663303	7663304				
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		20.2 #	2.12 #				
pH	1 pH Units	TM133		9.08 M	7.2 M				
Arsenic	<0.6 mg/kg	TM181		15.5 M	13.6 M				
Cadmium	<0.02 mg/kg	TM181		0.634 M	0.662 M				
Chromium	<0.9 mg/kg	TM181		12.3 M	13.4 M				
Copper	<1.4 mg/kg	TM181		44.8 M	25.5 M				
Lead	<0.7 mg/kg	TM181		256 M	118 M				
Mercury	<0.14 mg/kg	TM181		0.18 M	1.5 M				
Nickel	<0.2 mg/kg	TM181		43.4 M	20.5 M				
Selenium	<1 mg/kg	TM181		<1 #	<1 #				
Zinc	<1.9 mg/kg	TM181		384 M	194 M				

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
			Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
			AGS Reference						
Phenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Pentachlorophenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Nitrobenzene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Isophorone	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Hexachloroethane	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Hexachlorobenzene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Dimethyl phthalate	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Diethyl phthalate	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Dibenzofuran	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	487
Carbazole	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
Azobenzene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
4-Nitrophenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
4-Nitroaniline	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
4-Methylphenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
4-Chloroaniline	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
3-Nitroaniline	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2-Nitrophenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2-Nitroaniline	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2-Methylphenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
			Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	223
Acenaphthylene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	134
Acenaphthene	<100 µg/kg	TM157		<1000	592	<100	<100	<500	387
Anthracene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	316
Benzo(a)anthracene	<100 µg/kg	TM157		<1000	<100	<100	<100	1230	194
Benzo(b)fluoranthene	<100 µg/kg	TM157		1170	<100	<100	<100	1480	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		<1000	<100	<100	<100	1240	<100
Benzo(a)pyrene	<100 µg/kg	TM157		1280	<100	<100	<100	1640	152
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<1000	<100	<100	<100	1120	<100
Chrysene	<100 µg/kg	TM157		1170	<100	<100	<100	1630	280
Fluoranthene	<100 µg/kg	TM157		1230	<100	141	<100	2070	281
Fluorene	<100 µg/kg	TM157		<1000	<100	119	<100	<500	1330
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<1000	<100	<100	<100	939	<100
Phenanthrene	<100 µg/kg	TM157		<1000	474	353	344	1660	2560
Pyrene	<100 µg/kg	TM157		1210	145	221	126	2240	999
Naphthalene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	272
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<1000	<100	<100	<100	<500	<100

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
			Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	1360	<100	13100	537
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	139	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		446	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	131	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	315	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	403	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
			Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	1850	<100	20300	1020
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		4600	<100	128	<100	129	161
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		447	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		415	<100	<100	<100	481	<100
Benzo(a)anthracene	<100 µg/kg	TM157		423	<100	308	<100	495	613
Benzo(b)fluoranthene	<100 µg/kg	TM157		477	<100	349	<100	490	690
Benzo(k)fluoranthene	<100 µg/kg	TM157		317	<100	276	<100	405	568
Benzo(a)pyrene	<100 µg/kg	TM157		423	<100	323	<100	467	620
Benzo(g,h,i)perylene	<100 µg/kg	TM157		283	<100	228	<100	321	404
Chrysene	<100 µg/kg	TM157		616	<100	417	<100	570	781
Fluoranthene	<100 µg/kg	TM157		653	<100	499	<100	771	990
Fluorene	<100 µg/kg	TM157		1210	131	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		241	<100	205	<100	282	367
Phenanthrene	<100 µg/kg	TM157		2390	260	362	<100	494	570
Pyrene	<100 µg/kg	TM157		1150	188	470	<100	704	930
Naphthalene	<100 µg/kg	TM157		1180	<100	124	<100	127	148
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	133	<100

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147
			Depth (m)	0.30	2.00	0.20	1.90	0.45	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663299	7663300	7663301	7663302	7663293	7663294
			AGS Reference						
Phenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		1700	<100	<1000	<100	<100	1710
Carbazole	<100 µg/kg	TM157		1140	<100	<1000	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147
			Depth (m)	0.30	2.00	0.20	1.90	0.45	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663299	7663300	7663301	7663302	7663293	7663294
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<1000	<100	<1000	269	<100	<100
Acenaphthylene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		4170	<100	<1000	<100	<100	1010
Anthracene	<100 µg/kg	TM157		2410	<100	<1000	<100	<100	856
Benzo(a)anthracene	<100 µg/kg	TM157		4270	<100	1120	<100	241	195
Benzo(b)fluoranthene	<100 µg/kg	TM157		4600	<100	1370	<100	308	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		3610	<100	1120	<100	267	<100
Benzo(a)pyrene	<100 µg/kg	TM157		5090	<100	1510	<100	307	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		3100	<100	1090	<100	219	<100
Chrysene	<100 µg/kg	TM157		5050	<100	1450	<100	370	313
Fluoranthene	<100 µg/kg	TM157		8620	<100	1840	<100	423	321
Fluorene	<100 µg/kg	TM157		2770	<100	<1000	<100	<100	3860
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		2590	<100	<1000	<100	184	<100
Phenanthrene	<100 µg/kg	TM157		9320	<100	1150	<100	269	9330
Pyrene	<100 µg/kg	TM157		6740	<100	1500	<100	388	1920
Naphthalene	<100 µg/kg	TM157		1270	<100	<1000	<100	<100	621
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<1000	<100	<1000	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP5	CHVTP5				
			Depth (m)	0.30	2.50				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-57	130627-57				
			Lab Sample No.(s)	7663303	7663304				
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100				
Pentachlorophenol	<100 µg/kg	TM157		<100	<100				
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100				
Nitrobenzene	<100 µg/kg	TM157		<100	<100				
Isophorone	<100 µg/kg	TM157		<100	<100				
Hexachloroethane	<100 µg/kg	TM157		<100	<100				
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100				
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100				
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100				
Diethyl phthalate	<100 µg/kg	TM157		<100	<100				
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100				
Dibenzofuran	<100 µg/kg	TM157		<100	<100				
Carbazole	<100 µg/kg	TM157		<100	<100				
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100				
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		742	<100				
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100				
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100				
Azobenzene	<100 µg/kg	TM157		<100	<100				
4-Nitrophenol	<100 µg/kg	TM157		<100	<100				
4-Nitroaniline	<100 µg/kg	TM157		<100	<100				
4-Methylphenol	<100 µg/kg	TM157		<100	<100				
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100				
4-Chloroaniline	<100 µg/kg	TM157		<100	<100				
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100				
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100				
3-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Nitrophenol	<100 µg/kg	TM157		<100	<100				
2-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Methylphenol	<100 µg/kg	TM157		<100	<100				
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP5	CHVTP5				
			Depth (m)	0.30	2.50				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-57	130627-57				
			Lab Sample No.(s)	7663303	7663304				
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100				
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100				
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100				
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100				
Acenaphthylene	<100 µg/kg	TM157		<100	<100				
Acenaphthene	<100 µg/kg	TM157		<100	<100				
Anthracene	<100 µg/kg	TM157		<100	<100				
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100				
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	<100				
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100				
Benzo(a)pyrene	<100 µg/kg	TM157		<100	<100				
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100				
Chrysene	<100 µg/kg	TM157		<100	<100				
Fluoranthene	<100 µg/kg	TM157		<100	<100				
Fluorene	<100 µg/kg	TM157		<100	<100				
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100				
Phenanthrene	<100 µg/kg	TM157		138	<100				
Pyrene	<100 µg/kg	TM157		<100	<100				
Naphthalene	<100 µg/kg	TM157		<100	<100				
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
			Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		25	122	96	84	55	136
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		53200 M	356000 M	7700 M	40200 M	6230 #	1060000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<25 ♦ M	<5 M	<5 M	<5 ♦ #	<100 ♦ M
Benzene	<10 µg/kg	TM089		<10 ♦ M	141 ♦ M	<10 M	<10 M	<10 ♦ #	<200 ♦ M
Toluene	<2 µg/kg	TM089		<2 ♦ M	<10 ♦ M	<2 M	78.4 M	3.51 ♦ #	<40 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<15 ♦ M	<3 M	38.1 M	<3 ♦ #	<60 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<30 ♦ M	<6 M	56 M	<6 ♦ #	<120 ♦ M
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	<15 ♦ M	<3 M	<3 M	<3 ♦ #	<60 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	56	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	141	<24	173	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		22.6	467	20.9	43.7	25.7	52600
Aliphatics >C6-C8	<10 µg/kg	TM089		4140	44200	277	1940	117	249000
Aliphatics >C8-C10	<10 µg/kg	TM089		18400	98000	1560	8980	1390	254000
Aliphatics >C10-C12	<10 µg/kg	TM089		11000	88400	2890	13900	2260	204000
Aliphatics >C12-C16	<100 µg/kg	TM173		156000	485000	88300	131000	77500	681000
Aliphatics >C16-C21	<100 µg/kg	TM173		417000	401000	389000	331000	298000	272000
Aliphatics >C21-C35	<100 µg/kg	TM173		320000	113000	1800000	711000	611000	315000
Aliphatics >C35-C44	<100 µg/kg	TM173		265000	46000	135000	86700	273000	120000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1160000	1050000	2410000	1260000	1260000	1390000
Aromatics >EC5-EC7	<10 µg/kg	TM089		10.2	141	<10	<10	<10	243
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<50	<10	78.4	<10	<200
Aromatics >EC8-EC10	<10 µg/kg	TM089		12300	65300	1040	6080	930	169000
Aromatics >EC10-EC12	<10 µg/kg	TM089		7320	59000	1930	9250	1500	136000
Aromatics >EC12-EC16	<100 µg/kg	TM173		51000	126000	41500	56700	19800	515000
Aromatics >EC16-EC21	<100 µg/kg	TM173		151000	140000	248000	209000	149000	240000
Aromatics >EC21-EC35	<100 µg/kg	TM173		390000	106000	883000	345000	478000	253000
Aromatics >EC35-EC44	<100 µg/kg	TM173		413000	81600	71400	43900	412000	188000
Aromatics >EC40-EC44	<100 µg/kg	TM173		177000	33500	23100	13800	177000	78900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1000000	454000	1240000	655000	1060000	1200000
Total Aliphatics >C5-35	<100 µg/kg	TM173		927000	1230000	2280000	1200000	990000	2030000
Total Aromatics >C5-35	<100 µg/kg	TM173		612000	497000	1180000	626000	650000	1310000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1540000	1730000	3450000	1820000	1640000	3340000

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
		SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
(F)	Trigger breach confirmed	Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2220000	1850000	3660000	1950000	2320000	3650000

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
			Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		46	134	41	74	46	41
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		308000 #	944000 M	424 M	4720 M	5270 M	12100 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<50 ♦ #	<100 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M	<5 ♦ M
Benzene	<10 µg/kg	TM089		<100 ♦ #	<200 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M	<10 ♦ M
Toluene	<2 µg/kg	TM089		<20 ♦ #	<40 ♦ M	<2 ♦ M	<2 ♦ M	10.2 ♦ M	10.2 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<30 ♦ #	<60 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M	<3 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<60 ♦ #	<120 ♦ M	<6 ♦ M	12.4 ♦ M	<6 ♦ M	<6 ♦ M
o-Xylene	<3 µg/kg	TM089		<30 ♦ #	<60 ♦ M	<3 ♦ M	22.3 ♦ M	<3 ♦ M	<3 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	34.7	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	34.7	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<100	7250	14.2	131	10.2	13.6
Aliphatics >C6-C8	<10 µg/kg	TM089		5320	75300	53.6	770	35	72.3
Aliphatics >C8-C10	<10 µg/kg	TM089		99800	206000	71	961	251	838
Aliphatics >C10-C12	<10 µg/kg	TM089		81600	311000	134	1310	2880	6380
Aliphatics >C12-C16	<100 µg/kg	TM173		290000	503000	19800	167000	60400	18700
Aliphatics >C16-C21	<100 µg/kg	TM173		427000	243000	60700	39300	42100	30000
Aliphatics >C21-C35	<100 µg/kg	TM173		2080000	138000	242000	74200	295000	216000
Aliphatics >C35-C44	<100 µg/kg	TM173		48000	6290	43400	5320	36300	34100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2840000	892000	366000	286000	434000	299000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<100	<200	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<100	<200	<10	<10	10.2	10.2
Aromatics >EC8-EC10	<10 µg/kg	TM089		66600	137000	56.8	676	170	558
Aromatics >EC10-EC12	<10 µg/kg	TM089		54400	207000	89.6	874	1920	4250
Aromatics >EC12-EC16	<100 µg/kg	TM173		191000	325000	6830	16900	9580	5430
Aromatics >EC16-EC21	<100 µg/kg	TM173		264000	221000	27200	17200	18000	13400
Aromatics >EC21-EC35	<100 µg/kg	TM173		603000	146000	104000	94100	151000	107000
Aromatics >EC35-EC44	<100 µg/kg	TM173		61700	15300	41500	18300	47400	47700
Aromatics >EC40-EC44	<100 µg/kg	TM173		18900	3020	15900	5530	20100	21200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1120000	707000	180000	147000	226000	173000
Total Aliphatics >C5-35	<100 µg/kg	TM173		2980000	1480000	323000	284000	400000	272000
Total Aromatics >C5-35	<100 µg/kg	TM173		1180000	1040000	138000	130000	180000	130000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		4160000	2520000	461000	414000	581000	402000

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
		SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
(F)	Trigger breach confirmed	Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	4270000	2540000	546000	437000	664000	484000

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147
			Depth (m)	0.30	2.00	0.20	1.90	0.45	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663299	7663300	7663301	7663302	7663293	7663294
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		53	97	34	7	95	86
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		213 M	1640 #	7920 M	3190 M	1550 M	479000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 #	<5 ♦ M	<5 M	<5 ♦ M	<25 ♦ M
Benzene	<10 µg/kg	TM089		<10 ♦ M	<10 #	<10 ♦ M	<10 M	<10 ♦ M	<50 ♦ M
Toluene	<2 µg/kg	TM089		<2 ♦ M	5.12 #	<2 ♦ M	<2 M	3.36 ♦ M	<10 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<3 #	<3 ♦ M	<3 M	3.36 ♦ M	<15 ♦ M
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<6 #	6.37 ♦ M	<6 M	6.72 ♦ M	<30 ♦ M
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	6.4 #	7.43 ♦ M	13.2 M	7.84 ♦ M	<15 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	13.8	13.2	14.6	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	11.5	<10	288	28	1300
Aliphatics >C6-C8	<10 µg/kg	TM089		19.3	142	31.8	1080	91.8	38700
Aliphatics >C8-C10	<10 µg/kg	TM089		32.1	389	677	605	233	134000
Aliphatics >C10-C12	<10 µg/kg	TM089		77.1	494	4040	480	608	130000
Aliphatics >C12-C16	<100 µg/kg	TM173		36900	18000	13900	8560	13900	417000
Aliphatics >C16-C21	<100 µg/kg	TM173		53300	15300	29800	10000	38700	205000
Aliphatics >C21-C35	<100 µg/kg	TM173		230000	20900	66600	202000	422000	87000
Aliphatics >C35-C44	<100 µg/kg	TM173		149000	<100	39900	3990	22900	3490
Total Aliphatics >C12-C44	<100 µg/kg	TM173		469000	54200	150000	225000	498000	712000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<50
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<50
Aromatics >EC8-EC10	<10 µg/kg	TM089		25.7	270	466	416	174	89000
Aromatics >EC10-EC12	<10 µg/kg	TM089		51.4	329	2690	319	405	86600
Aromatics >EC12-EC16	<100 µg/kg	TM173		36400	18400	6340	13100	12900	407000
Aromatics >EC16-EC21	<100 µg/kg	TM173		102000	11300	23700	14900	18000	279000
Aromatics >EC21-EC35	<100 µg/kg	TM173		445000	56000	89300	871000	179000	193000
Aromatics >EC35-EC44	<100 µg/kg	TM173		353000	18800	121000	216000	35100	35200
Aromatics >EC40-EC44	<100 µg/kg	TM173		167000	3600	70400	55600	12200	6690
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		936000	104000	240000	1110000	245000	915000
Total Aliphatics >C5-35	<100 µg/kg	TM173		320000	55200	115000	223000	476000	1010000
Total Aromatics >C5-35	<100 µg/kg	TM173		583000	86300	122000	900000	211000	1060000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		903000	142000	238000	1120000	686000	2070000

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.30	2.00	0.20	1.90	0.45	2.20
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
		SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
(F)	Trigger breach confirmed	Lab Sample No.(s)	7663299	7663300	7663301	7663302	7663293	7663294
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1400000	160000	398000	1340000	744000	2110000

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP5	CHVTP5				
			Depth (m)	0.30	2.50				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-57	130627-57				
			Lab Sample No.(s)	7663303	7663304				
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		3	90				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		299 M	1630 M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 ♦ M				
Benzene	<10 µg/kg	TM089		<10 ♦ M	<10 ♦ M				
Toluene	<2 µg/kg	TM089		<2 ♦ M	<2 ♦ M				
Ethylbenzene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M				
m,p-Xylene	<6 µg/kg	TM089		<6 ♦ M	<6 ♦ M				
o-Xylene	<3 µg/kg	TM089		<3 ♦ M	<3 ♦ M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10				
Aliphatics >C6-C8	<10 µg/kg	TM089		31.9	59.5				
Aliphatics >C8-C10	<10 µg/kg	TM089		51	425				
Aliphatics >C10-C12	<10 µg/kg	TM089		103	511				
Aliphatics >C12-C16	<100 µg/kg	TM173		10000	23600				
Aliphatics >C16-C21	<100 µg/kg	TM173		21000	41700				
Aliphatics >C21-C35	<100 µg/kg	TM173		246000	365000				
Aliphatics >C35-C44	<100 µg/kg	TM173		78900	90200				
Total Aliphatics >C12-C44	<100 µg/kg	TM173		356000	520000				
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089		34	283				
Aromatics >EC10-EC12	<10 µg/kg	TM089		69.1	340				
Aromatics >EC12-EC16	<100 µg/kg	TM173		7780	11500				
Aromatics >EC16-EC21	<100 µg/kg	TM173		14800	21100				
Aromatics >EC21-EC35	<100 µg/kg	TM173		114000	188000				
Aromatics >EC35-EC44	<100 µg/kg	TM173		44000	54500				
Aromatics >EC40-EC44	<100 µg/kg	TM173		15300	20400				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		181000	275000				
Total Aliphatics >C5-35	<100 µg/kg	TM173		277000	431000				
Total Aromatics >C5-35	<100 µg/kg	TM173		137000	221000				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		414000	652000				

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	CHVTP5	CHVTP5				
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.30	2.50				
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid				
tot.unfilt	Total / unfiltered sample.	Date Sampled	26/06/2013	26/06/2013				
*	Subcontracted test.	Sample Time	.	.				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	27/06/2013	27/06/2013				
		SDG Ref	130627-57	130627-57				
(F)	Trigger breach confirmed	Lab Sample No.(s)	7663303	7663304				
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	537000	797000				

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
			Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
			AGS Reference						
Dibromofluoromethane**	%	TM116		105 ♦	103 ♦	104 ♦	103 ♦	107 ♦	107 ♦
Toluene-d8**	%	TM116		100 ♦	102 ♦	103 ♦	98.1 ♦	102 ♦	101 ♦
4-Bromofluorobenzene**	%	TM116		109 ♦	105 ♦	100 ♦	125 ♦	104 ♦	115 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M	<8 ♦ M	<80 ♦ #	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<140 ♦	<14 ♦	<140 ♦	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<200 ♦	<20 ♦	<200 ♦	<200 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<26 ♦ M	<260 ♦ #	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 ♦ #	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<12 ♦ M	<120 ♦ #	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<14 ♦ M	<140 ♦ #	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 ♦ #	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 ♦ #	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M	<16 ♦ M	<160 ♦ #	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 ♦ #	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 ♦ #	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 ♦ #	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<160 ♦ M	<160 ♦ M	<16 ♦ M	<160 ♦ #	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<14 ♦ M	<140 ♦ #	<140 ♦ M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 ♦ #	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 ♦ #	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 ♦ #	<100 ♦ M
Benzene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 ♦ #	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 ♦ #	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 ♦ #	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 ♦ #	<180 ♦ M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<140 ♦ M	<140 ♦ M	<14 ♦ M	<140 ♦ #	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 ♦ #	<280 ♦ M
Toluene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 ♦ #	<100 ♦ M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<280 ♦	<280 ♦	<280 ♦	<28 ♦	<280 ♦	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
			Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<140 ♦ #	<14 ♦ #	<140 ♦ #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 ♦ #	<100 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<26 ♦ M	<260 ♦ #	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 ♦ #	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 ♦ #	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<80 ♦ M	<80 ♦ M	<8 ♦ M	<80 ♦ #	<80 ♦ M
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ #	<280 ♦ #	<28 ♦ #	<280 ♦ #	<280 ♦ #
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M
Styrene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 ♦ #	<100 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<340 ♦ M	<340 ♦ M	<34 ♦ M	<340 ♦ #	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 ♦ #	<220 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<180 ♦ M	<180 ♦ M	<18 ♦ M	<180 ♦ #	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<160 ♦ #	<16 ♦ #	<160 ♦ #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 ♦ #	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<240 ♦ #	<24 ♦ #	<240 ♦ #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ #	<180 ♦ #	<18 ♦ #	<180 ♦ #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<220 ♦ M	<220 ♦ M	<22 ♦ M	<220 ♦ #	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<12 ♦ M	<120 ♦ #	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<100 ♦ M	<100 ♦ M	<10 ♦ M	<100 ♦ #	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<200 ♦ M	<200 ♦ M	<20 ♦ M	<200 ♦ #	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<240 ♦ M	<240 ♦ M	<24 ♦ M	<240 ♦ #	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<280 ♦ M	<280 ♦ M	<28 ♦ M	<280 ♦ #	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<300 ♦	<30 ♦	<300 ♦	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<120 ♦ #	<12 ♦ #	<120 ♦ #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<240 ♦	<24 ♦	<240 ♦	<240 ♦
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<260 ♦ M	<260 ♦ M	<26 ♦ M	<260 ♦ #	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141
			Depth (m)	0.40	1.90	0.35	2.80	0.30	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663284	7663286	7663287	7663288	7663289	7663290
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<120 ♦ M	<120 ♦ M	<12 ♦ M	<120 ♦ #	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
			Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
			AGS Reference						
Dibromofluoromethane**	%	TM116		102 ♦	104 ♦	102 ♦	105 ♦	104 ♦	105 ♦
Toluene-d8**	%	TM116		101 ♦	102 ♦	101 ♦	100 ♦	103 ♦	103 ♦
4-Bromofluorobenzene**	%	TM116		120 ♦	107 ♦	110 ♦	103 ♦	108 ♦	112 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ #	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<140 ♦	<140 ♦	<140 ♦	<140 ♦	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<200 ♦	<200 ♦	<200 ♦	<200 ♦	<200 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ #	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Benzene	<9 µg/kg	TM116		229 ♦ #	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ M	409 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Toluene	<5 µg/kg	TM116		610 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<280 ♦	<280 ♦	<280 ♦	<280 ♦	<280 ♦	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
			Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	148 ♦ M	183 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ #	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ #	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
p/m-Xylene	<14 µg/kg	TM116		1150 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #
o-Xylene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Styrene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		793 ♦ #	1720 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ #	<340 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		1590 ♦ #	2820 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ #	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		3450 ♦ #	<180 ♦ #	<180 ♦ #	291 ♦ #	<180 ♦ #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		3850 ♦ #	3080 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ #	3800 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<300 ♦	<300 ♦	<300 ♦	<300 ♦	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<240 ♦	<240 ♦	<240 ♦	<240 ♦	<240 ♦
Naphthalene	<13 µg/kg	TM116		<260 ♦ #	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV142	CAV142	CAV143	CAV143	CAV144	CAV144
			Depth (m)	0.40	2.50	0.20	2.20	0.35	1.80
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663291	7663292	7663295	7663296	7663297	7663298
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147
			Depth (m)	0.30	2.00	0.20	1.90	0.45	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663299	7663300	7663301	7663302	7663293	7663294
			AGS Reference						
Dibromofluoromethane**	%	TM116		103 ♦	103 ♦	101 ♦	102 ♦	104 ♦	104 ♦
Toluene-d8**	%	TM116		101 ♦	101 ♦	100 ♦	97.6 ♦	101 ♦	101 ♦
4-Bromofluorobenzene**	%	TM116		107 ♦	108 ♦	112 ♦	119 ♦	107 ♦	107 ♦
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 ♦ M	<8 ♦ #	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
Chloromethane	<7 µg/kg	TM116		<140 ♦	<14 ♦	<140 ♦	<140 ♦	<140 ♦	<140 ♦
Vinyl Chloride	<10 µg/kg	TM116		<200 ♦	<20 ♦	<200 ♦	<200 ♦	<200 ♦	<200 ♦
Bromomethane	<13 µg/kg	TM116		<260 ♦ M	<26 ♦ #	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
Chloroethane	<14 µg/kg	TM116		<280 ♦ M	<28 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 ♦ M	<12 ♦ #	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Carbon Disulphide	<7 µg/kg	TM116		<140 ♦ M	<14 ♦ #	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
Dichloromethane	<10 µg/kg	TM116		<200 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 ♦ M	<22 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 ♦ M	<22 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 ♦ M	<16 ♦ #	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 ♦ M	<10 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<24 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Bromochloromethane	<14 µg/kg	TM116		<280 ♦ M	<28 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Chloroform	<8 µg/kg	TM116		<160 ♦ M	<16 ♦ #	<160 ♦ M	<160 ♦ M	<160 ♦ M	<160 ♦ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 ♦ M	<14 ♦ #	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 ♦ M	<22 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
Carbontetrachloride	<14 µg/kg	TM116		<280 ♦ M	<28 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 ♦ M	<10 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Benzene	<9 µg/kg	TM116		<180 ♦ M	<18 ♦ #	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Trichloroethene	<9 µg/kg	TM116		<180 ♦ M	<18 ♦ #	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 ♦ M	<24 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Dibromomethane	<9 µg/kg	TM116		<180 ♦ M	<18 ♦ #	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
Bromodichloromethane	<7 µg/kg	TM116		<140 ♦ M	<14 ♦ #	<140 ♦ M	<140 ♦ M	<140 ♦ M	<140 ♦ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 ♦ M	<28 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Toluene	<5 µg/kg	TM116		<100 ♦ M	<10 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<280 ♦	<28 ♦	<280 ♦	<280 ♦	<280 ♦	<280 ♦
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147
			Depth (m)	0.30	2.00	0.20	1.90	0.45	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013	26/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013	27/06/2013
			SDG Ref	130627-57	130627-57	130627-57	130627-57	130627-57	130627-57
			Lab Sample No.(s)	7663299	7663300	7663301	7663302	7663293	7663294
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 ♦ #	<14 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #	<140 ♦ #
Tetrachloroethene	<5 µg/kg	TM116		<100 ♦ M	<10 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
Dibromochloromethane	<13 µg/kg	TM116		<260 ♦ M	<26 ♦ #	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 ♦ M	<24 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
Chlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<10 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Ethylbenzene	<4 µg/kg	TM116		<80 ♦ M	<8 ♦ #	<80 ♦ M	<80 ♦ M	<80 ♦ M	<80 ♦ M
p/m-Xylene	<14 µg/kg	TM116		<280 ♦ #	<28 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #	<280 ♦ #
o-Xylene	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Styrene	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Bromoform	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Isopropylbenzene	<5 µg/kg	TM116		<100 ♦ M	<10 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	1130 ♦ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 ♦ #	<20 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #	<200 ♦ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 ♦ M	<34 ♦ #	<340 ♦ M	<340 ♦ M	<340 ♦ M	<340 ♦ M
Bromobenzene	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
Propylbenzene	<11 µg/kg	TM116		<220 ♦ M	<22 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	2540 ♦ M
2-Chlorotoluene	<9 µg/kg	TM116		<180 ♦ M	<18 ♦ #	<180 ♦ M	<180 ♦ M	<180 ♦ M	<180 ♦ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 ♦ #	<16 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #	<160 ♦ #
4-Chlorotoluene	<12 µg/kg	TM116		<240 ♦ M	<24 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
tert-Butylbenzene	<12 µg/kg	TM116		<240 ♦ #	<24 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #	<240 ♦ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 ♦ #	<18 ♦ #	<180 ♦ #	601 ♦ #	<180 ♦ #	<180 ♦ #
sec-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	1680 ♦ M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 ♦ M	<22 ♦ #	<220 ♦ M	<220 ♦ M	<220 ♦ M	<220 ♦ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 ♦ M	<12 ♦ #	<120 ♦ M	<120 ♦ M	<120 ♦ M	<120 ♦ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 ♦ M	<10 ♦ #	<100 ♦ M	<100 ♦ M	<100 ♦ M	<100 ♦ M
n-Butylbenzene	<10 µg/kg	TM116		<200 ♦ M	<20 ♦ #	<200 ♦ M	<200 ♦ M	<200 ♦ M	<200 ♦ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 ♦ M	<24 ♦ #	<240 ♦ M	<240 ♦ M	<240 ♦ M	<240 ♦ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 ♦ M	<28 ♦ #	<280 ♦ M	<280 ♦ M	<280 ♦ M	<280 ♦ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300 ♦	<30 ♦	<300 ♦	<300 ♦	<300 ♦	<300 ♦
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 ♦ #	<12 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #	<120 ♦ #
Hexachlorobutadiene	<12 µg/kg	TM116		<240 ♦	<24 ♦	<240 ♦	<240 ♦	<240 ♦	<240 ♦
Naphthalene	<13 µg/kg	TM116		<260 ♦ M	<26 ♦ #	<260 ♦ M	<260 ♦ M	<260 ♦ M	<260 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	CAV145	0.30	Soil/Solid	26/06/2013	.	27/06/2013	130627-57	7663299	<120 ♦ M
			CAV145	2.00	Soil/Solid	26/06/2013	.	27/06/2013	130627-57	7663300	<12 ♦ #
			CAV146	0.20	Soil/Solid	26/06/2013	.	27/06/2013	130627-57	7663301	<120 ♦ M
			CAV146	1.90	Soil/Solid	26/06/2013	.	27/06/2013	130627-57	7663302	<120 ♦ M
			CAV147	0.45	Soil/Solid	26/06/2013	.	27/06/2013	130627-57	7663293	<120 ♦ M
			CAV147	2.20	Soil/Solid	26/06/2013	.	27/06/2013	130627-57	7663294	<120 ♦ M

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP5	CHVTP5				
			Depth (m)	0.30	2.50				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-57	130627-57				
			Lab Sample No.(s)	7663303	7663304				
			AGS Reference						
Dibromofluoromethane**	%	TM116		106 3 ♦	105 ♦				
Toluene-d8**	%	TM116		103 3 ♦	100 ♦				
4-Bromofluorobenzene**	%	TM116		101 3 ♦	102 ♦				
Dichlorodifluoromethane	<4 µg/kg	TM116		<800 3 ♦	<80 ♦ M				
Chloromethane	<7 µg/kg	TM116		<1400 3 ♦	<140 ♦				
Vinyl Chloride	<10 µg/kg	TM116		<2000 3 ♦	<200 ♦				
Bromomethane	<13 µg/kg	TM116		<2600 3 ♦	<260 ♦ M				
Chloroethane	<14 µg/kg	TM116		<2800 3 ♦	<280 ♦ M				
Trichlorofluorormethane	<6 µg/kg	TM116		<1200 3 ♦	<120 ♦ M				
1,1-Dichloroethene	<10 µg/kg	TM116		<2000 3 ♦	<200 ♦ #				
Carbon Disulphide	<7 µg/kg	TM116		<1400 3 ♦	<140 ♦ M				
Dichloromethane	<10 µg/kg	TM116		<2000 3 ♦	<200 ♦ #				
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<2200 3 ♦	<220 ♦ M				
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<2200 3 ♦	<220 ♦ M				
1,1-Dichloroethane	<8 µg/kg	TM116		<1600 3 ♦	<160 ♦ M				
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<1000 3 ♦	<100 ♦ M				
2,2-Dichloropropane	<12 µg/kg	TM116		<2400 3 ♦	<240 ♦ M				
Bromochloromethane	<14 µg/kg	TM116		<2800 3 ♦	<280 ♦ M				
Chloroform	<8 µg/kg	TM116		<1600 3 ♦	<160 ♦ M				
1,1,1-Trichloroethane	<7 µg/kg	TM116		<1400 3 ♦	<140 ♦ M				
1,1-Dichloropropene	<11 µg/kg	TM116		<2200 3 ♦	<220 ♦ M				
Carbontetrachloride	<14 µg/kg	TM116		<2800 3 ♦	<280 ♦ M				
1,2-Dichloroethane	<5 µg/kg	TM116		<1000 3 ♦	<100 ♦ M				
Benzene	<9 µg/kg	TM116		<1800 3 ♦	<180 ♦ M				
Trichloroethene	<9 µg/kg	TM116		<1800 3 ♦	<180 ♦ M				
1,2-Dichloropropane	<12 µg/kg	TM116		<2400 3 ♦	<240 ♦ M				
Dibromomethane	<9 µg/kg	TM116		<1800 3 ♦	<180 ♦ M				
Bromodichloromethane	<7 µg/kg	TM116		<1400 3 ♦	<140 ♦ M				
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<2800 3 ♦	<280 ♦ M				
Toluene	<5 µg/kg	TM116		<1000 3 ♦	<100 ♦ M				
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<2800 3 ♦	<280 ♦				
1,1,2-Trichloroethane	<10 µg/kg	TM116		<2000 3 ♦	<200 ♦ M				

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Customer Sample R			CHVTP5	CHVTP5					
Depth (m)			0.30	2.50					
Sample Type			Soil/Solid	Soil/Solid					
Date Sampled			26/06/2013	26/06/2013					
Sample Time			.	.					
Date Received			27/06/2013	27/06/2013					
SDG Ref			130627-57	130627-57					
Lab Sample No.(s)			7663303	7663304					
AGS Reference									
Component	**LOD/Units**	**Method**							
1,3-Dichloropropane	<7 µg/kg	TM116	<1400 3 ♦	<140 ♦ #					
Tetrachloroethene	<5 µg/kg	TM116	<1000 3 ♦	<100 ♦ M					
Dibromochloromethane	<13 µg/kg	TM116	<2600 3 ♦	<260 ♦ M					
1,2-Dibromoethane	<12 µg/kg	TM116	<2400 3 ♦	<240 ♦ M					
Chlorobenzene	<5 µg/kg	TM116	<1000 3 ♦	<100 ♦ M					
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ M					
Ethylbenzene	<4 µg/kg	TM116	<800 3 ♦	<80 ♦ M					
p/m-Xylene	<14 µg/kg	TM116	<2800 3 ♦	<280 ♦ #					
o-Xylene	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ M					
Styrene	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ M					
Bromoform	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ M					
Isopropylbenzene	<5 µg/kg	TM116	<1000 3 ♦	<100 ♦ M					
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ #					
1,2,3-Trichloropropane	<17 µg/kg	TM116	<3400 3 ♦	<340 ♦ M					
Bromobenzene	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ M					
Propylbenzene	<11 µg/kg	TM116	<2200 3 ♦	<220 ♦ M					
2-Chlorotoluene	<9 µg/kg	TM116	<1800 3 ♦	<180 ♦ M					
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<1600 3 ♦	<160 ♦ #					
4-Chlorotoluene	<12 µg/kg	TM116	<2400 3 ♦	<240 ♦ M					
tert-Butylbenzene	<12 µg/kg	TM116	<2400 3 ♦	<240 ♦ #					
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<1800 3 ♦	<180 ♦ #					
sec-Butylbenzene	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ M					
4-Isopropyltoluene	<11 µg/kg	TM116	<2200 3 ♦	<220 ♦ M					
1,3-Dichlorobenzene	<6 µg/kg	TM116	<1200 3 ♦	<120 ♦ M					
1,4-Dichlorobenzene	<5 µg/kg	TM116	<1000 3 ♦	<100 ♦ M					
n-Butylbenzene	<10 µg/kg	TM116	<2000 3 ♦	<200 ♦ M					
1,2-Dichlorobenzene	<12 µg/kg	TM116	<2400 3 ♦	<240 ♦ M					
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<2800 3 ♦	<280 ♦ M					
Tert-amyl methyl ether	<15 µg/kg	TM116	<3000 3 ♦	<300 ♦					
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<1200 3 ♦	<120 ♦ #					
Hexachlorobutadiene	<12 µg/kg	TM116	<2400 3 ♦	<240 ♦					
Naphthalene	<13 µg/kg	TM116	<2600 3 ♦	<260 ♦ M					

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CHVTP5	CHVTP5				
			Depth (m)	0.30	2.50				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-57	130627-57				
			Lab Sample No.(s)	7663303	7663304				
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<1200 3 ♦	<120 ♦ M				

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV139 0.40 SOLID 26/06/2013 00:00:00 130627-57 7663284 TM048	11/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV139 1.90 SOLID 26/06/2013 00:00:00 130627-57 7663286 TM048	11/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV140 0.35 SOLID 26/06/2013 00:00:00 130627-57 7663287 TM048	11/7/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV140 2.80 SOLID 26/06/2013 00:00:00 130627-57 7663288 TM048	11/7/13	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 0.30 SOLID 26/06/2013 00:00:00 130627-57 7663289 TM048	11/7/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 2.00 SOLID 26/06/2013 00:00:00 130627-57 7663290 TM048	11/7/13	Chris Swindells	Soil containing loose fibres and material typical of Asbestos Insulation	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV142 0.40 SOLID 26/06/2013 00:00:00 130627-57 7663291 TM048	11/7/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV142 2.50 SOLID 26/06/2013 00:00:00 130627-57 7663292 TM048	11/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV143 0.20 SOLID 26/06/2013 00:00:00 130627-57 7663295 TM048	11/7/13	Paul Fenney	Loose fibres in soil	Trace (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV143 2.20 SOLID 26/06/2013 00:00:00 130627-57 7663296 TM048	11/7/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV144 0.35 SOLID 26/06/2013 00:00:00 130627-57 7663297 TM048	11/7/13	Simon Postlewhite	Loose fibres in soil	Trace (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV144 1.80 SOLID 26/06/2013 00:00:00 130627-57 7663298 TM048	11/7/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV145 0.30 SOLID 26/06/2013 00:00:00 130627-57 7663299 TM048	11/7/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV145 2.00 SOLID 26/06/2013 00:00:00 130627-57 7663300 TM048	11/7/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV146 0.20 SOLID 26/06/2013 00:00:00 130627-57 7663301 TM048	11/7/13	Chris Swindells	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV146 1.90 SOLID 26/06/2013 00:00:00 130627-57 7663302 TM048	11/7/13	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV147 0.45 SOLID 26/06/2013 00:00:00 130627-57 7663293 TM048	11/7/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV147 2.20 SOLID 26/06/2013 00:00:00 130627-57 7663294 TM048	11/7/13	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP5 0.30 SOLID 26/06/2013 00:00:00 130627-57 7663303 TM048	11/7/13	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP5 2.50 SOLID 26/06/2013 00:00:00 130627-57 7663304 TM048	11/7/13	Simon Postlewhite	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV140 0.35 SOLID 26/06/2013 00:00:00 130627-57 7663287 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 0.30 SOLID 26/06/2013 00:00:00 130627-57 7663289 TM 304	None (#)	N/C	0.8933 (#)	0.0049 (#)	0.8982 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV142 0.40 SOLID 26/06/2013 00:00:00 130627-57 7663291 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV143 0.20 SOLID 26/06/2013 00:00:00 130627-57 7663295 TM 304	None (#)	N/C	0.0024 (#)	<0.001 (#)	0.0032 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV144 0.35 SOLID 26/06/2013 00:00:00 130627-57 7663297 TM 304	Chrysotile (#)	Loose fibres	0.0594 (#)	0.0012 (#)	0.0606 (#)

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV145 0.30 SOLID 26/06/2013 00:00:00 130627-57 7663299 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV146 0.20 SOLID 26/06/2013 00:00:00 130627-57 7663301 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV147 0.45 SOLID 26/06/2013 00:00:00 130627-57 7663293 TM 304	None (#)	N/C	0.0058 (#)	<0.001 (#)	0.0067 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP5 0.30 SOLID 26/06/2013 00:00:00 130627-57 7663303 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7663284	7663286	7663287	7663288	7663289	7663290	7663291	7663292	7663295	7663296
Customer Sample Ref.	CAV139	CAV139	CAV140	CAV140	CAV141	CAV141	CAV142	CAV142	CAV143	CAV143
AGS Ref.										
Depth	0.40	1.90	0.35	2.80	0.30	2.00	0.40	2.50	0.20	2.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013
Asbestos Quantification - Full			01-Aug-2013		01-Aug-2013		01-Aug-2013		01-Aug-2013	
EPH CWG (Aliphatic) GC (S)	10-Jul-2013	10-Jul-2013	10-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013
EPH CWG (Aromatic) GC (S)	10-Jul-2013	10-Jul-2013	10-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013
GRO by GC-FID (S)	12-Jul-2013	12-Jul-2013	11-Jul-2013	11-Jul-2013	12-Jul-2013	13-Jul-2013	13-Jul-2013	13-Jul-2013	12-Jul-2013	12-Jul-2013
Metals in solid samples by OES	10-Jul-2013	10-Jul-2013	10-Jul-2013	09-Jul-2013	10-Jul-2013	09-Jul-2013	10-Jul-2013	09-Jul-2013	10-Jul-2013	09-Jul-2013
pH	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	03-Jul-2013	05-Jul-2013	05-Jul-2013
Sample description	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013
Semi Volatile Organic Compounds	10-Jul-2013	10-Jul-2013	09-Jul-2013	10-Jul-2013	10-Jul-2013	06-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013	10-Jul-2013
Total Organic Carbon	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
TPH CWG GC (S)	12-Jul-2013	12-Jul-2013	11-Jul-2013	11-Jul-2013	12-Jul-2013	13-Jul-2013	13-Jul-2013	13-Jul-2013	12-Jul-2013	12-Jul-2013
VOC MS (S)	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	16-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013

Lab Sample No(s)	7663297	7663298	7663299	7663300	7663301	7663302	7663293	7663294	7663303	7663304
Customer Sample Ref.	CAV144	CAV144	CAV145	CAV145	CAV146	CAV146	CAV147	CAV147	CHVTP5	CHVTP5
AGS Ref.										
Depth	0.35	1.80	0.30	2.00	0.20	1.90	0.45	2.20	0.30	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013	11-Jul-2013
Asbestos Quantification - Full	01-Aug-2013		01-Aug-2013		01-Aug-2013		01-Aug-2013		01-Aug-2013	
EPH CWG (Aliphatic) GC (S)	10-Jul-2013	10-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013
EPH CWG (Aromatic) GC (S)	10-Jul-2013	10-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	11-Jul-2013	10-Jul-2013	11-Jul-2013	10-Jul-2013	10-Jul-2013
GRO by GC-FID (S)	12-Jul-2013	12-Jul-2013	12-Jul-2013	11-Jul-2013	12-Jul-2013	11-Jul-2013	12-Jul-2013	12-Jul-2013	12-Jul-2013	12-Jul-2013
Metals in solid samples by OES	10-Jul-2013	10-Jul-2013	04-Jul-2013	10-Jul-2013	04-Jul-2013	09-Jul-2013	09-Jul-2013	09-Jul-2013	10-Jul-2013	09-Jul-2013
PCBs by GCMS					25-Jul-2013	24-Jul-2013	25-Jul-2013	24-Jul-2013		
pH	05-Jul-2013	03-Jul-2013	05-Jul-2013	05-Jul-2013	04-Jul-2013	05-Jul-2013	03-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
Sample description	03-Jul-2013	03-Jul-2013	02-Jul-2013	03-Jul-2013	02-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013	03-Jul-2013
Semi Volatile Organic Compounds	10-Jul-2013	10-Jul-2013	07-Jul-2013	10-Jul-2013	07-Jul-2013	09-Jul-2013	10-Jul-2013	09-Jul-2013	10-Jul-2013	10-Jul-2013
Total Organic Carbon	05-Jul-2013	05-Jul-2013	09-Jul-2013	05-Jul-2013	09-Jul-2013	10-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
TPH CWG GC (S)	12-Jul-2013	12-Jul-2013	12-Jul-2013	11-Jul-2013	12-Jul-2013	11-Jul-2013	12-Jul-2013	12-Jul-2013	12-Jul-2013	12-Jul-2013
VOC MS (S)	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	15-Jul-2013	16-Jul-2013	15-Jul-2013

SDG:	130627-57	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0446
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	235962
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

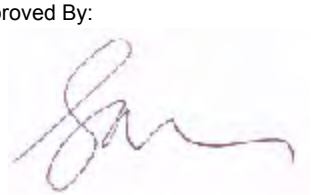
Date:	07 August 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130619-32
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	236595

We received 43 samples on Wednesday June 19, 2013 and 43 of these samples were scheduled for analysis which was completed on Wednesday August 07, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7613156	CA-A1		0.30	18/06/2013
7613157	CA-A2		0.30	18/06/2013
7613171	CA-A3		0.30	18/06/2013
7613172	CA-A4		0.30	18/06/2013
7613109	CA-A5		0.30	17/06/2013
7613110	CA-A6		0.30	17/06/2013
7613166	CAV2		0.30	18/06/2013
7613168	CAV3		0.30	18/06/2013
7613164	CAV4		0.30	18/06/2013
7613162	CAV7		0.30	18/06/2013
7613111	CAV10		0.30	17/06/2013
7613114	CAV12		0.30	17/06/2013
7613112	CAV18		0.30	17/06/2013
7613113	CAV19		0.30	17/06/2013
7613115	CAV20		0.30	17/06/2013
7613116	CAV21		0.30	17/06/2013
7613119	CAV24		0.30	17/06/2013
7613121	CAV27		0.30	17/06/2013
7613128	CAV35		0.30	17/06/2013
7613125	CAV38		0.30	17/06/2013
7613117	CAV41		0.30	17/06/2013
7613173	CAV102		0.30	18/06/2013
7613174	CAV105		0.30	18/06/2013
7613175	CAV107		0.30	18/06/2013
7613176	CAV108		0.30	18/06/2013
7613177	CAV110		0.30	18/06/2013
7613178	CAV111		0.30	18/06/2013
7613179	CAV114		0.30	18/06/2013
7613180	CAV115		0.30	18/06/2013
7613161	CAV119		0.30	18/06/2013
7613169	CAV126		0.30	18/06/2013
7613170	CAV129		0.30	18/06/2013
7613143	CHVTP004		0.30	17/06/2013
7613147	CHVTP009		0.30	17/06/2013
7613150	CHVTP014		0.30	17/06/2013
7613152	CHVTP015		0.30	17/06/2013
7613153	CHVTP019		0.30	17/06/2013
7613154	CHVTP022		0.30	17/06/2013
7613140	DSP 1		0.30	17/06/2013
7613136	DSP 4		0.30	17/06/2013
7613131	DSP 5		0.30	17/06/2013
7613107	HSP 1		0.30	17/06/2013
7613108	HSP 2		0.30	17/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

Test	Samples	Counts
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 43
Asbestos Quantification - Full*	All	NDPs: 0 Tests: 34

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Asbestos ID in Solid Samples	Asbestos Quantification - Full*
7613156	CA-A1		0.30	400g Tub (ALE214)	X	X
7613157	CA-A2		0.30	400g Tub (ALE214)	X	X
7613171	CA-A3		0.30	400g Tub (ALE214)	X	X
7613172	CA-A4		0.30	400g Tub (ALE214)	X	
7613109	CA-A5		0.30	400g Tub (ALE214)	X	
7613110	CA-A6		0.30	400g Tub (ALE214)	X	
7613166	CAV2		0.30	400g Tub (ALE214)	X	X
7613168	CAV3		0.30	400g Tub (ALE214)	X	
7613164	CAV4		0.30	400g Tub (ALE214)	X	X
7613162	CAV7		0.30	400g Tub (ALE214)	X	X
7613111	CAV10		0.30	400g Tub (ALE214)	X	X
7613114	CAV12		0.30	400g Tub (ALE214)	X	
7613112	CAV18		0.30	400g Tub (ALE214)	X	X
7613113	CAV19		0.30	400g Tub (ALE214)	X	X
7613115	CAV20		0.30	400g Tub (ALE214)	X	X
7613116	CAV21		0.30	400g Tub (ALE214)	X	X
7613119	CAV24		0.30	400g Tub (ALE214)	X	X
7613121	CAV27		0.30	400g Tub (ALE214)	X	X
7613128	CAV35		0.30	400g Tub (ALE214)	X	X
7613125	CAV38		0.30	400g Tub (ALE214)	X	X
7613117	CAV41		0.30	400g Tub (ALE214)	X	X
7613173	CAV102		0.30	400g Tub (ALE214)	X	X
7613174	CAV105		0.30	400g Tub (ALE214)	X	X
7613175	CAV107		0.30	400g Tub (ALE214)	X	X
7613176	CAV108		0.30	400g Tub (ALE214)	X	X
7613177	CAV110		0.30	400g Tub (ALE214)	X	X
7613178	CAV111		0.30	400g Tub (ALE214)	X	X
7613179	CAV114		0.30	400g Tub (ALE214)	X	X
7613180	CAV115		0.30	400g Tub (ALE214)	X	X
7613161	CAV119		0.30	400g Tub (ALE214)	X	X
7613169	CAV126		0.30	400g Tub (ALE214)	X	X
7613170	CAV129		0.30	400g Tub (ALE214)	X	X
7613143	CHVTP004		0.30	400g Tub (ALE214)	X	
7613147	CHVTP009		0.30	400g Tub (ALE214)	X	X
7613150	CHVTP014		0.30	400g Tub (ALE214)	X	
7613152	CHVTP015		0.30	400g Tub (ALE214)	X	
7613153	CHVTP019		0.30	400g Tub (ALE214)	X	
7613154	CHVTP022		0.30	400g Tub (ALE214)	X	X
7613140	DSP 1		0.30	400g Tub (ALE214)	X	X
7613136	DSP 4		0.30	400g Tub (ALE214)	X	X

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7613131	DSP 5		0.30	400g Tub (ALE214)
			7613107	HSP 1		0.30	400g Tub (ALE214)
			7613108	HSP 2		0.30	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 43	X	X	X		
Asbestos Quantification - Full*	All	NDPs: 0 Tests: 34	X	X	X		

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CA-A1	CA-A2	CA-A3	CAV2	CAV4	CAV7
			Depth (m)	0.30	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013
			SDG Ref	130619-32	130619-32	130619-32	130619-32	130619-32	130619-32
			Lab Sample No.(s)	7613156	7613157	7613171	7613166	7613164	7613162
			AGS Reference						
Asbestos Quantification - Gravimetric - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - PCOM Evaluation - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - Total - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV10	CAV18	CAV19	CAV20	CAV21	CAV24
			Depth (m)	0.30	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/06/2013	17/06/2013	17/06/2013	17/06/2013	17/06/2013	17/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013
			SDG Ref	130619-32	130619-32	130619-32	130619-32	130619-32	130619-32
			Lab Sample No.(s)	7613111	7613112	7613113	7613115	7613116	7613119
			AGS Reference						
Asbestos Quantification - Gravimetric - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - PCOM Evaluation - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	0.002 #	<0.001 #	<0.001 #
Asbestos Quantification - Total - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	0.002 #	<0.001 #	<0.001 #

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV27	CAV35	CAV38	CAV41	CAV102	CAV105
			Depth (m)	0.30	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/06/2013	17/06/2013	17/06/2013	17/06/2013	18/06/2013	18/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013
			SDG Ref	130619-32	130619-32	130619-32	130619-32	130619-32	130619-32
			Lab Sample No.(s)	7613121	7613128	7613125	7613117	7613173	7613174
			AGS Reference						
Asbestos Quantification - Gravimetric - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - PCOM Evaluation - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - Total - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	0.001 #	<0.001 #	<0.001 #

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV107	CAV108	CAV110	CAV111	CAV114	CAV115
			Depth (m)	0.30	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013
			SDG Ref	130619-32	130619-32	130619-32	130619-32	130619-32	130619-32
			Lab Sample No.(s)	7613175	7613176	7613177	7613178	7613179	7613180
			AGS Reference						
Asbestos Quantification - Gravimetric - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - PCOM Evaluation - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - Total - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV119	CAV126	CAV129	CHVTP009	CHVTP022	DSP 1
			Depth (m)	0.30	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/06/2013	18/06/2013	18/06/2013	17/06/2013	17/06/2013	17/06/2013
			Sample Time	.	.	.	.	.	.
			Date Received	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013	19/06/2013
			SDG Ref	130619-32	130619-32	130619-32	130619-32	130619-32	130619-32
			Lab Sample No.(s)	7613161	7613169	7613170	7613147	7613154	7613140
			AGS Reference						
Asbestos Quantification - Gravimetric - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - PCOM Evaluation - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	0.003 #	<0.001 #	<0.001 #	<0.001 #
Asbestos Quantification - Total - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	0.003 #	<0.001 #	<0.001 #	<0.001 #

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	DSP 4	DSP 5	HSP 1	HSP 2		
			Depth (m)	0.30	0.30	0.30	0.30		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	17/06/2013	17/06/2013	17/06/2013	17/06/2013		
			Sample Time	.	.	.	.		
			Date Received	19/06/2013	19/06/2013	19/06/2013	19/06/2013		
			SDG Ref	130619-32	130619-32	130619-32	130619-32		
			Lab Sample No.(s)	7613136	7613131	7613107	7613108		
			AGS Reference						
Asbestos Quantification - Gravimetric - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #		
Asbestos Quantification - PCOM Evaluation - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #		
Asbestos Quantification - Total - %*	<0.001 %	SUB (ASB)		<0.001 #	<0.001 #	<0.001 #	<0.001 #		

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CA-A1 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613156 TM048	05/07/13	Martin Cotterell	Soil containing loose fibres and ACM debris	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CA-A2 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613157 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CA-A3 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613171 TM048	05/07/13	Tomasz Pawlikowski	Soil containing loose fibres and material typical of asbestos insulation	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CA-A4 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613172 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CA-A5 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613109 TM048	04/07/13	Kevin Bowron	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CA-A6 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613110 TM048	05/07/13	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV2 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613166 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV3 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613168 TM048	05/07/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV4 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613164 TM048	05/07/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV7 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613162 TM048	05/07/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV10 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613111 TM048	05/07/13	Tomasz Pawlikowski	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV12 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613114 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV18 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613112 TM048	05/07/13	Lauren Sargeant	Soil containing loose fibres and debris typical of asbestos cement	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV19 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613113 TM048	05/07/13	Paul Fenney	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV20 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613115 TM048	04/07/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV21 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613116 TM048	04/07/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV24 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613119 TM048	04/07/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV27 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613121 TM048	05/07/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV35 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613128 TM048	04/07/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV38 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613125 TM048	05/07/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV41 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613117 TM048	05/07/13	Lauren Sargeant	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV102 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613173 TM048	05/07/13	Lauren Sargeant	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV105 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613174 TM048	05/07/13	Lauren Sargeant	Soil containing loose fibres and material debris typical of insulation board	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV107 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613175 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV108 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613176 TM048	05/07/13	Tomasz Pawlikowski	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV110 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613177 TM048	05/07/13	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV111 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613178 TM048	05/07/13	Tomasz Pawlikowski	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV114 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613179 TM048	05/07/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV115 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613180 TM048	04/07/13	Chris Swindells	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV119 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613161 TM048	05/07/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV126 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613169 TM048	05/07/13	Tomasz Pawlikowski	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV129 0.30 SOLID 18/06/2013 00:00:00 130619-32 7613170 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP004 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613143 TM048	05/07/13	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP009 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613147 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP014 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613150 TM048	05/07/13	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP015 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613152 TM048	05/07/13	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP019 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613153 TM048	05/07/13	Paul Fenney	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CHVTP022 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613154 TM048	05/07/13	Tomasz Pawlikowski	Soil containing loose fibres and debris typical of asbestos cement	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	DSP 1 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613140 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	DSP 4 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613136 TM048	04/07/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	DSP 5 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613131 TM048	05/07/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HSP 1 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613107 TM048	04/07/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HSP 2 0.30 SOLID 17/06/2013 00:00:00 130619-32 7613108 TM048	04/07/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
SUB (ASB)				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7613156	7613157	7613171	7613172	7613109	7613110	7613166	7613168	7613164	7613162
Customer Sample Ref.	CA-A1	CA-A2	CA-A3	CA-A4	CA-A5	CA-A6	CAV2	CAV3	CAV4	CAV7
AGS Ref.										
Depth	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
Asbestos Quantification - Full*	07-Aug-2013	07-Aug-2013	07-Aug-2013				07-Aug-2013		07-Aug-2013	07-Aug-2013

Lab Sample No(s)	7613111	7613114	7613112	7613113	7613115	7613116	7613119	7613121	7613128	7613125
Customer Sample Ref.	CAV10	CAV12	CAV18	CAV19	CAV20	CAV21	CAV24	CAV27	CAV35	CAV38
AGS Ref.										
Depth	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
Asbestos Quantification - Full*	07-Aug-2013		07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013

Lab Sample No(s)	7613117	7613173	7613174	7613175	7613176	7613177	7613178	7613179	7613180	7613161
Customer Sample Ref.	CAV41	CAV102	CAV105	CAV107	CAV108	CAV110	CAV111	CAV114	CAV115	CAV119
AGS Ref.										
Depth	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
Asbestos Quantification - Full*	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013	07-Aug-2013

Lab Sample No(s)	7613169	7613170	7613143	7613147	7613150	7613152	7613153	7613154	7613140	7613136
Customer Sample Ref.	CAV126	CAV129	CHVTP004	CHVTP009	CHVTP014	CHVTP015	CHVTP019	CHVTP022	DSP 1	DSP 4
AGS Ref.										
Depth	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013	05-Jul-2013
Asbestos Quantification - Full*	07-Aug-2013	07-Aug-2013		07-Aug-2013				07-Aug-2013	07-Aug-2013	07-Aug-2013

Lab Sample No(s)	7613131	7613107	7613108
Customer Sample Ref.	DSP 5	HSP 1	HSP 2
AGS Ref.			
Depth	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	05-Jul-2013	05-Jul-2013	05-Jul-2013
Asbestos Quantification - Full*	07-Aug-2013	07-Aug-2013	07-Aug-2013

Certificate of Analysis

2139

Date: 05/08/2013

Certificate Number: 13-85268

Client:	Alcontrol Laboratories Units 7 & 8 Hawarden Business Park Manor Road Hawarden Deeside CH5 3US
Our Reference:	13-85268
Client Reference:	130619-32
Contract Title:	130619-32
Description:	34 soil samples
Date Received:	17 July 2013
Date Started:	17 July 2013
Date Completed:	05 August 2013
Test Procedures:	Identified by prefix DETSn, details available upon request.
Notes:	Observations and interpretations are outside the scope of UKAS accreditation
Approved By:	Rob Brown, Business Manager

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Information in Support of the Analytical Results

Analysis

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425um sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28oC +/-2oC.

Key

*	Denotes test not included in laboratory scope of accreditation
#	Denotes test that holds MCERTS accreditation, however, MCERTS accreditation is only implied if the report carries the MCERTS logo
$	Denotes tests completed by an approved subcontractor
I/S	Denotes insufficient sample to carry out test
U/S	Denotes that the sample is not suitable for testing

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month
Liquids - 2 weeks
Asbestos (test portion) - 6 months

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536230	536231	536232
		Sample Ref	7725889	7725893	7725896
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	17/06/2013	17/06/2013	17/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**0.002**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	0.002	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		455.07	464.75	404.56
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536233	536234	536235
		Sample Ref	7725907	7725913	7725921
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	17/06/2013	17/06/2013	17/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		451.85	342.37	485.48
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536236	536237	536238
		Sample Ref	7725928	7725937	7725946
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	17/06/2013	17/06/2013	18/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		506.85	482.52	411.55
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536239	536240	536341
		Sample Ref	7725954	7725960	7725962
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	18/06/2013	18/06/2013	18/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		340.08	335.10	460.67
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	537242	536243	536244
		Sample Ref	7725971	7725982	7725991
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	18/06/2013	18/06/2013	17/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		405.69	394.13	444.69
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536245	536246	536247
		Sample Ref	7725994	7726002	7726010
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	17/06/2013	18/06/2013	17/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		448.84	448.84	348.56
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536248	536249	536250
		Sample Ref	7726021	7726034	7726045
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	17/06/2013	18/06/2013	18/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		435.45	473.14	358.55
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536251	536252	536253
		Sample Ref	7726051	7726059	7726068
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	18/06/2013	18/06/2013	18/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		429.28	444.26	333.92
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536254	536255	536256
		Sample Ref	7726075	7726083	7726088
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	18/06/2013	18/06/2013	18/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		352.04	468.80	337.74
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536257	536258	536259
		Sample Ref	7726093	7726100	7726120
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	18/06/2013	18/06/2013	17/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**0.003**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	0.003	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		424.36	464.03	399.07
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536260	536261	536262
		Sample Ref	7726125	7726128	7726137
		Depth			
		Other Ref			
		Sample Type	SOIL	SOIL	SOIL
Test	**Units**	**DETSxx**	17/06/2013	17/06/2013	17/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**	**<0.001**	**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001	<0.001	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na	na	na
Breakdown of Gravimetric Analysis					
Mass of Sample	g		457.84	444.45	542.22
ACMs present*					
Mass of ACM in sample	g				
% ACM by mass	%				
% asbestos in ACM	%				
% asbestos in sample	%				
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested	not requested	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Summary of Asbestos Analysis
Soil Samples

Our Ref: 13-85268

Client Ref: 130619-32

Contract Title: 130619-32

		Lab No.	536263
		Sample Ref	7726143
		Depth	
		Other Ref	
		Sample Type	SOIL
Test	**Units**	**DETSxx**	17/06/2013
Total Mass% Asbestos (i+ii)	Mass %		**<0.001**
Quantification by Phase Contrast Optical Microscopy (i)	Mass %	DETSC 1102	<0.001
Gravimetric Quantification (ii)	Mass %	DETSC 1102	na
Breakdown of Gravimetric Analysis			
Mass of Sample	g		471.60
ACMs present*			
Mass of ACM in sample	g		
% ACM by mass	%		
% asbestos in ACM	%		
% asbestos in sample	%		
Potentially Respirable Fibres	Fibres/g	DETSC 1102	not requested

* Denotes test or material description outside of UKAS accreditation.

% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.

Recommended sample size for quantification is approximately 1kg

denotes deviating sample

Sample Comments

DETS cannot be held responsible for the integrity of sample(s) received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating.

Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note "Guidance on Deviating Samples".

All samples received are listed below. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations.

If no sampled date (soils) or date/time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters), this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Lab No.	Sample ID	Date Sampled	Containers Received	Deviating due to holding time being exceeded for test(s)	Deviating due to inappropriate container for test(s)	Deviating due to headspace presence in container for test(s)
536230	7725889 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536231	7725893 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536232	7725896 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536233	7725907 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536234	7725913 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536235	7725921 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536236	7725928 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536237	7725937 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536238	7725946 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536239	7725954 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536240	7725960 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536241	7725962 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536242	7725971 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536243	7725982 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536244	7725991 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536245	7725994 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536246	7726002 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536247	7726010 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536248	7726021 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)			
536249	7726034 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536250	7726045 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536251	7726051 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			
536252	7726059 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)			

536253	7726068 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)
536254	7726075 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)
536255	7726083 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)
536256	7726088 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)
536257	7726093 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)
536258	7726100 SOIL	18/06/2013	Plastic Tub 1 litre (1kg)
536259	7726120 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)
536260	7726125 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)
536261	7726128 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)
536262	7726137 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)
536263	7726143 SOIL	17/06/2013	Plastic Tub 1 litre (1kg)

SDG:	130619-32	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0437
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	236595
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
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Llandarcy
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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

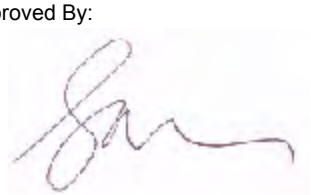
Date:	20 August 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130810-9
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	238611

We received 3 samples on Saturday August 10, 2013 and 3 of these samples were scheduled for analysis which was completed on Tuesday August 20, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7911015	SUMP 1			09/08/2013
7911016	SUMP 2			09/08/2013
7911017	SUMP 3			09/08/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	7911015									7911016									7911017								
			Customer Sample Reference	SUMP 1									SUMP 2									SUMP 3								
			AGS Reference																											
			Depth (m)																											
			Container	1l Glass bottle (ALE	1lplastic (ALE221)	H2SO4 (ALE244)	HNO3 Filtered (ALE	NaOH (ALE245)	Vial (ALE297)	1l Glass bottle (ALE	1lplastic (ALE221)	H2SO4 (ALE244)	HNO3 Filtered (ALE	NaOH (ALE245)	Vial (ALE297)	1l Glass bottle (ALE	1lplastic (ALE221)	H2SO4 (ALE244)	HNO3 Filtered (ALE	NaOH (ALE245)	Vial (ALE297)									
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 3			X					X						X													
BOD True Total	All	NDPs: 0 Tests: 3		X					X						X														
COD Unfiltered	All	NDPs: 0 Tests: 3		X					X						X														
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 3		X					X						X														
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 3				X					X								X										
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3	X						X						X														
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3	X						X						X														
GRO by GC-FID (W)	All	NDPs: 0 Tests: 3						X						X															X
Mercury Dissolved	All	NDPs: 0 Tests: 3	X						X						X														
Nitrite by Kone (w)	All	NDPs: 0 Tests: 3					X						X								X								
pH Value	All	NDPs: 0 Tests: 3		X					X						X														
Phenols by HPLC (W)	All	NDPs: 0 Tests: 3			X					X						X													
Suspended Solids	All	NDPs: 0 Tests: 3		X					X						X														
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 3	X						X						X														
TPH CWG (W)	All	NDPs: 0 Tests: 3	X						X						X														

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7911015	SUMP 1			1l Glass bottle (ALE
							1lplastic (ALE221)
							H2SO4 (ALE244)
							HNO3 Filtered (ALE
							NaOH (ALE245)
			X				Vial (ALE297)
			7911016	SUMP 2			1l Glass bottle (ALE
							1lplastic (ALE221)
							H2SO4 (ALE244)
							HNO3 Filtered (ALE
							NaOH (ALE245)
			X				Vial (ALE297)
			7911017	SUMP 3			1l Glass bottle (ALE
							1lplastic (ALE221)
							H2SO4 (ALE244)
							HNO3 Filtered (ALE
							NaOH (ALE245)
			X				Vial (ALE297)
VOC MS (W)	All	NDPs: 0 Tests: 3					

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SUMP 1	SUMP 2	SUMP 3			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	09/08/2013	09/08/2013	09/08/2013			
			Sample Time	.	.	.			
			Date Received	10/08/2013	10/08/2013	10/08/2013			
			SDG Ref	130810-9	130810-9	130810-9			
			Lab Sample No.(s)	7911015	7911016	7911017			
			AGS Reference						
Suspended solids, Total	<2 mg/l	TM022		164 #	116 #	332 #			
BOD, unfiltered	<1 mg/l	TM045		2.42 #	3.48 #	96.9 #			
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099		0.477 #	0.511 #	2.89 #			
COD, unfiltered	<7 mg/l	TM107		79.5 #	71.2 #	443 #			
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120		0.684 #	0.96 #	1.93 #			
Arsenic (diss.filt)	<0.12 µg/l	TM152		4.94 #	4.1 #	7.04 #			
Cadmium (diss.filt)	<0.1 µg/l	TM152		0.167 #	<0.1 #	1.19 #			
Chromium (diss.filt)	<0.22 µg/l	TM152		3.59 #	3.04 #	4.36 #			
Copper (diss.filt)	<0.85 µg/l	TM152		17.8 #	4.77 #	80.6 #			
Lead (diss.filt)	<0.02 µg/l	TM152		40 #	3.48 #	38.3 #			
Nickel (diss.filt)	<0.15 µg/l	TM152		6.32 #	5.29 #	306 #			
Selenium (diss.filt)	<0.39 µg/l	TM152		0.571 #	2.69 #	1.49 #			
Zinc (diss.filt)	<0.41 µg/l	TM152		62 #	15.9 #	309 #			
Mercury (diss.filt)	<0.01 µg/l	TM183		<0.01 #	<0.01 #	<0.01 #			
Nitrite as NO2	<0.05 mg/l	TM184		<0.05 #	0.094 #	0.077 #			
pH	<1 pH Units	TM256		7.37 #	7.84 #	5.89 #			
Phenol	<0.002 mg/l	TM259		<0.002 #	<0.002 #	<0.002 #			
Cresols	<0.006 mg/l	TM259		<0.006 #	<0.006 #	<0.006 #			
Xylenols	<0.008 mg/l	TM259		<0.008 #	<0.008 #	0.01 #			
2,3,5-Trimethylphenol	<0.003 mg/l	TM259		<0.003 #	<0.003 #	<0.003 #			
2-Isopropylphenol	<0.006 mg/l	TM259		<0.006 #	<0.006 #	<0.006 #			
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259		<0.025	<0.025	<0.025			

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SUMP 1	SUMP 2	SUMP 3			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	09/08/2013	09/08/2013	09/08/2013			
			Sample Time	.	.	.			
			Date Received	10/08/2013	10/08/2013	10/08/2013			
			SDG Ref	130810-9	130810-9	130810-9			
			Lab Sample No.(s)	7911015	7911016	7911017			
			AGS Reference						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<2	<1	<1			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<2	<1	<1			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<2	<1	<1			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<2	<1	<1			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<2	<1	<1			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<2	<1	<1			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<2	<1	<1			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<2	<1	5.98			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<2	<1	<1			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<2	<1	<1			
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<2	<1	<1			
2-Chlorophenol (aq)	<1 µg/l	TM176		<2	<1	<1			
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<2	<1	<1			
2-Methylphenol (aq)	<1 µg/l	TM176		<2	<1	<1			
2-Nitroaniline (aq)	<1 µg/l	TM176		<2	<1	<1			
2-Nitrophenol (aq)	<1 µg/l	TM176		<2	<1	<1			
3-Nitroaniline (aq)	<1 µg/l	TM176		<2	<1	<1			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<2	<1	<1			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<2	<1	<1			
4-Chloroaniline (aq)	<1 µg/l	TM176		<2	<1	<1			
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<2	<1	<1			
4-Methylphenol (aq)	<1 µg/l	TM176		<2	<1	<1			
4-Nitrophenol (aq)	<1 µg/l	TM176		<2	<1	<1			
4-Nitroaniline (aq)	<1 µg/l	TM176		<2	<1	<1			
Azobenzene (aq)	<1 µg/l	TM176		<2	<1	<1			
Acenaphthylene (aq)	<1 µg/l	TM176		<2	<1	<1			
Acenaphthene (aq)	<1 µg/l	TM176		<2	<1	<1			
Anthracene (aq)	<1 µg/l	TM176		<2	<1	<1			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<2	<1	<1			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<2	<1	<1			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<20	<10	67.2			
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<2	<1	<1			

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SUMP 1	SUMP 2	SUMP 3			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	09/08/2013	09/08/2013	09/08/2013			
			Sample Time	.	.	.			
			Date Received	10/08/2013	10/08/2013	10/08/2013			
			SDG Ref	130810-9	130810-9	130810-9			
			Lab Sample No.(s)	7911015	7911016	7911017			
			AGS Reference						
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<2	<1	<1			
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<2	<1	<1			
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<2	<1	<1			
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<2	<1	<1			
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<2	<1	<1			
Carbazole (aq)	<1 µg/l	TM176		<2	<1	<1			
Chrysene (aq)	<1 µg/l	TM176		<2	<1	<1			
Dibenzofuran (aq)	<1 µg/l	TM176		<2	<1	<1			
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<2	<1	<1			
Diethyl phthalate (aq)	<1 µg/l	TM176		<2	<1	<1			
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<2	<1	<1			
Dimethyl phthalate (aq)	<1 µg/l	TM176		<2	<1	<1			
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<10	<5	<5			
Fluoranthene (aq)	<1 µg/l	TM176		<2	<1	<1			
Fluorene (aq)	<1 µg/l	TM176		<2	<1	<1			
Hexachlorobenzene (aq)	<1 µg/l	TM176		<2	<1	<1			
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<2	<1	<1			
Pentachlorophenol (aq)	<1 µg/l	TM176		<2	<1	<1			
Phenol (aq)	<1 µg/l	TM176		<2	<1	4.38			
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<2	<1	<1			
Hexachloroethane (aq)	<1 µg/l	TM176		<2	<1	<1			
Nitrobenzene (aq)	<1 µg/l	TM176		<2	<1	<1			
Naphthalene (aq)	<1 µg/l	TM176		<2	<1	<1			
Isophorone (aq)	<1 µg/l	TM176		<2	<1	<1			
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<2	<1	<1			
Phenanthrene (aq)	<1 µg/l	TM176		<2	<1	<1			
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<2	<1	<1			
Pyrene (aq)	<1 µg/l	TM176		<2	<1	<1			

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SUMP 1	SUMP 2	SUMP 3			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	09/08/2013	09/08/2013	09/08/2013			
			Sample Time	.	.	.			
			Date Received	10/08/2013	10/08/2013	10/08/2013			
			SDG Ref	130810-9	130810-9	130810-9			
			Lab Sample No.(s)	7911015	7911016	7911017			
			AGS Reference						
GRO Surrogate % recovery**	%	TM245		107	113	107			
GRO >C5-C12	<50 µg/l	TM245		<50 #	<50 #	2960 #			
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245		<3 #	<3 #	<3 #			
Benzene	<7 µg/l	TM245		<7 #	<7 #	36 #			
Toluene	<4 µg/l	TM245		<4 #	<4 #	<4 #			
Ethylbenzene	<5 µg/l	TM245		<5 #	<5 #	<5 #			
m,p-Xylene	<8 µg/l	TM245		<8 #	<8 #	9 #			
o-Xylene	<3 µg/l	TM245		<3 #	<3 #	<3 #			
Sum of detected Xylenes	<11 µg/l	TM245		<11	<11	<11			
Sum of detected BTEX	<28 µg/l	TM245		<28	<28	36			
Aliphatics >C5-C6	<10 µg/l	TM245		<10	<10	29			
Aliphatics >C6-C8	<10 µg/l	TM245		<10	<10	214			
Aliphatics >C8-C10	<10 µg/l	TM245		<10	<10	1310			
Aliphatics >C10-C12	<10 µg/l	TM245		<10	11	292			
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174		<10	<10	239			
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174		<10	<10	393			
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174		30	52	460			
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174		30	52	1090			
Aromatics >EC5-EC7	<10 µg/l	TM245		<10	<10	36			
Aromatics >EC7-EC8	<10 µg/l	TM245		<10	<10	<10			
Aromatics >EC8-EC10	<10 µg/l	TM245		<10	<10	881			
Aromatics >EC10-EC12	<10 µg/l	TM245		<10	<10	195			
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174		<10	<10	258			
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174		<10	<10	180			
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174		<10	<10	165			
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174		<10	<10	603			
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174		30	87	4650			

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SUMP 1	SUMP 2	SUMP 3			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	09/08/2013	09/08/2013	09/08/2013			
			Sample Time	.	.	.			
			Date Received	10/08/2013	10/08/2013	10/08/2013			
			SDG Ref	130810-9	130810-9	130810-9			
			Lab Sample No.(s)	7911015	7911016	7911017			
			AGS Reference						
Dibromofluoromethane**	%	TM208		111	109	109			
Toluene-d8**	%	TM208		99.1	98.9	98.6			
4-Bromofluorobenzene**	%	TM208		102	100	101			
Dichlorodifluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Chloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Vinyl chloride	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Chloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Trichlorofluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Carbon disulphide	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Dichloromethane	<3 µg/l	TM208		<3 #	<3 #	<3 #			
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #			
trans-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1-Dichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
cis-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
2,2-Dichloropropane	<1 µg/l	TM208		<1 ♦	<1 ♦	<1 ♦			
Bromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Chloroform	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,1-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Carbontetrachloride	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dichloroethane	<1 µg/l	TM208		<1	<1	<1			
Benzene	<1 µg/l	TM208		<1 #	<1 #	49.2 #			
Trichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Dibromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromodichloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
cis-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Toluene	<1 µg/l	TM208		<1 #	<1 #	3.58 #			
trans-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,2-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SUMP 1	SUMP 2	SUMP 3			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	09/08/2013	09/08/2013	09/08/2013			
			Sample Time	.	.	.			
			Date Received	10/08/2013	10/08/2013	10/08/2013			
			SDG Ref	130810-9	130810-9	130810-9			
			Lab Sample No.(s)	7911015	7911016	7911017			
			AGS Reference						
1,3-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Tetrachloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Dibromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dibromoethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Chlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	8.68 #			
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	2.85 #			
Styrene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromoform	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Isopropylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1			
1,2,3-Trichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Propylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
2-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,3,5-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	18.5 #			
4-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
tert-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2,4-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	5.09 #			
sec-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
4-iso-Propyltoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,3-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,4-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
n-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1			
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208		<1	<1	<1			
1,2,4-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Hexachlorobutadiene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Naphthalene	<1 µg/l	TM208		<1 #	<1 #	<1 #			

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (W)

Results Legend		Customer Sample R	SUMP 1	SUMP 2	SUMP 3			
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.			
tot.unfilt	Total / unfiltered sample.	Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
*	Subcontracted test.	Date Sampled	09/08/2013	09/08/2013	09/08/2013			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.			
		Date Received	10/08/2013	10/08/2013	10/08/2013			
		SDG Ref	130810-9	130810-9	130810-9			
(F)	Trigger breach confirmed	Lab Sample No.(s)	7911015	7911016	7911017			
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
1,2,3-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,3,5-Trichlorobenzene	<1 µg/l	TM208	<1	<1	<1			

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit		
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM245	By GC-FID	Determination of GRO by Headspace in waters		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7911015	7911016	7911017
Customer Sample Ref.	SUMP 1	SUMP 2	SUMP 3
AGS Ref.			
Depth			
Type	LIQUID	LIQUID	LIQUID
Ammoniacal Nitrogen	13-Aug-2013	13-Aug-2013	13-Aug-2013
BOD True Total	15-Aug-2013	15-Aug-2013	15-Aug-2013
COD Unfiltered	11-Aug-2013	11-Aug-2013	11-Aug-2013
Conductivity (at 20 deg.C)	14-Aug-2013	14-Aug-2013	14-Aug-2013
Dissolved Metals by ICP-MS	20-Aug-2013	20-Aug-2013	20-Aug-2013
EPH CWG (Aliphatic) Aqueous GC (W)	20-Aug-2013	20-Aug-2013	20-Aug-2013
EPH CWG (Aromatic) Aqueous GC (W)	20-Aug-2013	20-Aug-2013	20-Aug-2013
GRO by GC-FID (W)	20-Aug-2013	20-Aug-2013	20-Aug-2013
Mercury Dissolved	14-Aug-2013	14-Aug-2013	14-Aug-2013
Nitrite by Kone (w)	12-Aug-2013	12-Aug-2013	12-Aug-2013
pH Value	14-Aug-2013	14-Aug-2013	14-Aug-2013
Phenols by HPLC (W)	20-Aug-2013	20-Aug-2013	20-Aug-2013
Suspended Solids	15-Aug-2013	15-Aug-2013	15-Aug-2013
SVOC MS (W) - Aqueous	20-Aug-2013	20-Aug-2013	20-Aug-2013
TPH CWG (W)	20-Aug-2013	20-Aug-2013	20-Aug-2013
VOC MS (W)	19-Aug-2013	19-Aug-2013	19-Aug-2013

SDG:	130810-9	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0476
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	238611
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	28 August 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130821-56
Your Reference:	CA Remediation
Location:	Coed Darcy
Report No:	239831

We received 24 samples on Wednesday August 21, 2013 and 24 of these samples were scheduled for analysis which was completed on Wednesday August 28, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7970360	CAV034 BASE1		0.50	19/08/2013
7970361	CAV034 BASE2		0.50	19/08/2013
7970372	CAV039 BASE1		0.50	19/08/2013
7970374	CAV039 BASE2		0.50	19/08/2013
7970357	CAV101 BASE 1		1.00	19/08/2013
7970358	CAV101 BASE 2		1.00	19/08/2013
7970381	CAV143 BASE1		0.50	20/08/2013
7970383	CAV143 BASE2		0.50	20/08/2013
7970396	CAV144 BASE1		0.50	20/08/2013
7970397	CAV144 BASE2		0.50	20/08/2013
7970367	CAV034 E		0.30	19/08/2013
7970378	CAV039 E		0.30	19/08/2013
7970387	CAV143 E		0.30	20/08/2013
7970400	CAV144 E		0.30	20/08/2013
7970362	CAV034 N		0.30	19/08/2013
7970375	CAV039 N		0.30	19/08/2013
7970398	CAV144 N		0.30	20/08/2013
7970365	CAV034 S		0.30	19/08/2013
7970377	CAV039 S		0.30	19/08/2013
7970385	CAV143 S		0.30	20/08/2013
7970370	CAV034 W		0.30	19/08/2013
7970380	CAV039 W		0.30	19/08/2013
7970390	CAV143 W		0.30	20/08/2013
7970401	CAV144 W		0.30	20/08/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7970360	CAV034 BASE1		0.50	400g Tub (ALE214)
			7970361	CAV034 BASE2		0.50	400g Tub (ALE214)
			7970372	CAV039 BASE1		0.50	400g Tub (ALE214)
			7970374	CAV039 BASE2		0.50	400g Tub (ALE214)
			7970357	CAV101 BASE 1		1.00	400g Tub (ALE214)
			7970358	CAV101 BASE 2		1.00	400g Tub (ALE214)
			7970381	CAV143 BASE1		0.50	400g Tub (ALE214)
			7970383	CAV143 BASE2		0.50	400g Tub (ALE214)
			7970396	CAV144 BASE1		0.50	400g Tub (ALE214)
			7970397	CAV144 BASE2		0.50	400g Tub (ALE214)
			7970367	CAV034 E		0.30	400g Tub (ALE214)
			7970378	CAV039 E		0.30	400g Tub (ALE214)
			7970387	CAV143 E		0.30	400g Tub (ALE214)
			7970400	CAV144 E		0.30	400g Tub (ALE214)
			7970362	CAV034 N		0.30	400g Tub (ALE214)
			7970375	CAV039 N		0.30	400g Tub (ALE214)
			7970398	CAV144 N		0.30	400g Tub (ALE214)
			7970365	CAV034 S		0.30	400g Tub (ALE214)
			7970377	CAV039 S		0.30	400g Tub (ALE214)
			7970385	CAV143 S		0.30	400g Tub (ALE214)
			7970370	CAV034 W		0.30	400g Tub (ALE214)
			7970380	CAV039 W		0.30	400g Tub (ALE214)
			7970390	CAV143 W		0.30	400g Tub (ALE214)
			7970401	CAV144 W		0.30	400g Tub (ALE214)
Asbestos Quantification - Full	All	NDPs: 0 Tests: 14	X	X	X	X	X	X					X	X			X	X		X	X		X	X		X	X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 10							X	X	X	X			X	X			X			X			X	X			X	X
Sample description	All	NDPs: 0 Tests: 10							X	X	X	X			X	X			X			X			X	X			X	X

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7970381	CAV143 BASE1	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
7970383	CAV143 BASE2	0.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
7970396	CAV144 BASE1	0.50	Light Brown	Sand	0.1 - 2 mm	Stones	None
7970397	CAV144 BASE2	0.50	Light Brown	Sand	0.1 - 2 mm	Stones	None
7970387	CAV143 E	0.30	Light Brown	Gravel	2 - 10 mm	Stones	None
7970400	CAV144 E	0.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
7970398	CAV144 N	0.30	Light Brown	Gravel	2 - 10 mm	Stones	None
7970385	CAV143 S	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
7970390	CAV143 W	0.30	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
7970401	CAV144 W	0.30	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV143 BASE1	CAV143 BASE2	CAV144 BASE1	CAV144 BASE2	CAV143 E	CAV144 E
			Depth (m)	0.50	0.50	0.50	0.50	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013
			Sample Time	.	.	.	.	.	.
			Date Received	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			SDG Ref	130821-56	130821-56	130821-56	130821-56	130821-56	130821-56
			Lab Sample No.(s)	7970381	7970383	7970396	7970397	7970387	7970400
			AGS Reference						
Lead	<0.7 mg/kg	TM181		1060 M	138 M	60.5 M	96.4 M	68.7 #	6150 M

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	CAV144 N	CAV143 S	CAV143 W	CAV144 W		
			Depth (m)	0.30	0.30	0.30	0.30		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	20/08/2013	20/08/2013	20/08/2013	20/08/2013		
			Sample Time	.	.	.	.		
			Date Received	21/08/2013	21/08/2013	21/08/2013	21/08/2013		
			SDG Ref	130821-56	130821-56	130821-56	130821-56		
			Lab Sample No.(s)	7970398	7970385	7970390	7970401		
			AGS Reference						
Lead	<0.7 mg/kg	TM181		35.2 #	211 M	773 M	51.2 M		

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV034 BASE1 0.50 SOLID 19/08/2013 00:00:00 130821-56 7970360 TM 304	None (#)	N/C	0.0211 (#)	0.0012 (#)	0.0223 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV034 BASE2 0.50 SOLID 19/08/2013 00:00:00 130821-56 7970361 TM 304	None (#)	N/C	0.0062 (#)	<0.001 (#)	0.0064 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 BASE1 0.50 SOLID 19/08/2013 00:00:00 130821-56 7970372 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 BASE2 0.50 SOLID 19/08/2013 00:00:00 130821-56 7970374 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 BASE 1 1.00 SOLID 19/08/2013 00:00:00 130821-56 7970357 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV101 BASE 2 1.00 SOLID 19/08/2013 00:00:00 130821-56 7970358 TM 304	None (#)	N/C	0.0088 (#)	<0.001 (#)	0.0093 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV034 E 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970367 TM 304	None (#)	N/C	0.0091 (#)	<0.001 (#)	0.0094 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 E 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970378 TM 304	None (#)	N/C	0.0041 (#)	<0.001 (#)	0.0043 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV034 N 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970362 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 N 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970375 TM 304	None (#)	N/C	0.0214 (#)	<0.001 (#)	0.0216 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV034 S 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970365 TM 304	None (#)	N/C	0.0025 (#)	<0.001 (#)	0.0034 (#)

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 S 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970377 TM 304	None (#)	N/C	0.0125 (#)	<0.001 (#)	0.0129 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV034 W 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970370 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV039 W 0.30 SOLID 19/08/2013 00:00:00 130821-56 7970380 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7970360	7970361	7970372	7970374	7970381	7970383	7970396	7970397	7970357	7970358
Customer Sample Ref.	CAV034 BASE1	CAV034 BASE2	CAV039 BASE1	CAV039 BASE2	CAV143 BASE1	CAV143 BASE2	CAV144 BASE1	CAV144 BASE2	CAV101 BASE 1	CAV101 BASE 2
AGS Ref.										
Depth	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	1.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Quantification - Full	28-Aug-2013	28-Aug-2013	27-Aug-2013	28-Aug-2013					27-Aug-2013	28-Aug-2013
Metals in solid samples by OES					27-Aug-2013	27-Aug-2013	28-Aug-2013	27-Aug-2013		
Sample description					22-Aug-2013	22-Aug-2013	22-Aug-2013	22-Aug-2013		

Lab Sample No(s)	7970367	7970362	7970365	7970378	7970387	7970400	7970375	7970398	7970377	7970385
Customer Sample Ref.	CAV034 E	CAV034 N	CAV034 S	CAV039 E	CAV143 E	CAV144 E	CAV039 N	CAV144 N	CAV039 S	CAV143 S
AGS Ref.										
Depth	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Quantification - Full	28-Aug-2013	28-Aug-2013	28-Aug-2013	28-Aug-2013			28-Aug-2013		28-Aug-2013	
Metals in solid samples by OES					27-Aug-2013	28-Aug-2013		27-Aug-2013		27-Aug-2013
Sample description					22-Aug-2013	22-Aug-2013		22-Aug-2013		22-Aug-2013

Lab Sample No(s)	7970370	7970380	7970390	7970401
Customer Sample Ref.	CAV034 W	CAV039 W	CAV143 W	CAV144 W
AGS Ref.				
Depth	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID
Asbestos Quantification - Full	28-Aug-2013	28-Aug-2013		
Metals in solid samples by OES			27-Aug-2013	28-Aug-2013
Sample description			22-Aug-2013	22-Aug-2013

SDG:	130821-56	**Location:**	Coed Darcy	**Order Number:**	CD0479
Job:	H_ATKINS_LDC-162	**Customer:**	Atkins Global Ltd	**Report Number:**	239831
Client Reference:	CA Remediation	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

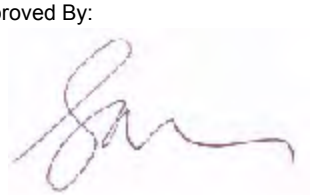
Date:	29 August 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130822-40
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	239980

We received 3 samples on Thursday August 22, 2013 and 3 of these samples were scheduled for analysis which was completed on Thursday August 29, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7976262	MSMW070d			21/08/2013
7976261	MSMW070S2			21/08/2013
7976260	P1BH005			21/08/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

LIQUID

Results Legend

X Test

N No Determination Possible

			Lab Sample No(s)	7976262									7976261									7976260								
			Customer Sample Reference	MSMW070d									MSMW070S2									P1BH005								
			AGS Reference																											
			Depth (m)																											
			Container	1l Glass bottle (ALE	1lplastic (ALE221)	H2SO4 (ALE244)	HNO3 Filtered (ALE	NaOH (ALE245)	Vial (ALE297)	1l Glass bottle (ALE	1lplastic (ALE221)	H2SO4 (ALE244)	HNO3 Filtered (ALE	NaOH (ALE245)	Vial (ALE297)	1l Glass bottle (ALE	1lplastic (ALE221)	H2SO4 (ALE244)	HNO3 Filtered (ALE	NaOH (ALE245)	Vial (ALE297)
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 3			X					X						X					
Anions by Kone (w)	All	NDPs: 0 Tests: 3		X					X						X						
BOD True Total	All	NDPs: 0 Tests: 3		X					X						X						
COD Unfiltered	All	NDPs: 0 Tests: 3		X					X						X						
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 3		X					X						X						
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 3				X					X							X			
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3	X						X						X						
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3	X						X						X						
GRO by GC-FID (W)	All	NDPs: 0 Tests: 3						X						X							X
Mercury Dissolved	All	NDPs: 0 Tests: 3	X						X						X						
Nitrite by Kone (w)	All	NDPs: 0 Tests: 3					X						X						X		
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 3	X						X						X						
pH Value	All	NDPs: 0 Tests: 3		X					X						X						
Phenols by HPLC (W)	All	NDPs: 0 Tests: 3			X					X						X					
Suspended Solids	All	NDPs: 0 Tests: 3		X					X						X						

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7976262	MSMW070d			1l Glass bottle (ALE
							1lplastic (ALE221)
							H2SO4 (ALE244)
							HNO3 Filtered (ALE
							NaOH (ALE245)
							Vial (ALE297)
			7976261	MSMW070S2			1l Glass bottle (ALE
							1lplastic (ALE221)
							H2SO4 (ALE244)
							HNO3 Filtered (ALE
							NaOH (ALE245)
							Vial (ALE297)
			7976260	P1BH005			1l Glass bottle (ALE
							1lplastic (ALE221)
							H2SO4 (ALE244)
							HNO3 Filtered (ALE
							NaOH (ALE245)
							Vial (ALE297)
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 3					
			X				
			X				
			X				
TPH CWG (W)	All	NDPs: 0 Tests: 3					
			X				
			X				
			X				
VOC MS (W)	All	NDPs: 0 Tests: 3					
			X				
			X				
							X

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	21/08/2013	21/08/2013	21/08/2013			
			Sample Time	.	.	.			
			Date Received	22/08/2013	22/08/2013	22/08/2013			
			SDG Ref	130822-40	130822-40	130822-40			
			Lab Sample No.(s)	7976262	7976261	7976260			
			AGS Reference						
Suspended solids, Total	<2 mg/l	TM022		342 #	458 #	257 #			
BOD, unfiltered	<1 mg/l	TM045		<5 #	<10 #	<5 #			
Ammoniacal Nitrogen as NH4	<0.3 mg/l	TM099		1.21 #	5.5 #	0.931 #			
COD, unfiltered	<7 mg/l	TM107		80.4 #	115 #	168 #			
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120		0.401 #	0.413 #	0.427 #			
Arsenic (diss.filt)	<0.12 µg/l	TM152		4.96 #	39.1 #	7.17 #			
Cadmium (diss.filt)	<0.1 µg/l	TM152		<0.1 #	0.494 #	<0.1 #			
Chromium (diss.filt)	<0.22 µg/l	TM152		2.31 #	1.6 #	1.57 #			
Copper (diss.filt)	<0.85 µg/l	TM152		<0.85 #	0.905 #	<0.85 #			
Lead (diss.filt)	<0.02 µg/l	TM152		1.49 #	0.804 #	0.162 #			
Nickel (diss.filt)	<0.15 µg/l	TM152		2.22 #	1.03 #	12.3 #			
Selenium (diss.filt)	<0.39 µg/l	TM152		<0.39 #	1.5 #	0.736 #			
Vanadium (diss.filt)	<0.24 µg/l	TM152		0.349 #	1.18 #	0.671 #			
Zinc (diss.filt)	<0.41 µg/l	TM152		12.7 #	16 #	33 #			
Mercury (diss.filt)	<0.01 µg/l	TM183		<0.01 #	<0.01 #	<0.01 #			
Nitrite as NO2	<0.05 mg/l	TM184		<0.05 #	<0.05 #	<0.05 #			
Phosphate (ortho) as PO4	<0.05 mg/l	TM184		0.058 #	<0.05 #	0.072 #			
Nitrate as NO3	<0.3 mg/l	TM184		<0.3 #	<0.3 #	<0.3 #			
pH	<1 pH Units	TM256		7.44 #	7.22 #	7.29 #			
Phenols, Total Detected monohydric	<0.016 mg/l	TM259		<0.016 #	<0.016 #	<0.016 #			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

PAH Spec MS - Aqueous (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	21/08/2013	21/08/2013	21/08/2013			
			Sample Time	.	.	.			
			Date Received	22/08/2013	22/08/2013	22/08/2013			
			SDG Ref	130822-40	130822-40	130822-40			
			Lab Sample No.(s)	7976262	7976261	7976260			
			AGS Reference						
Naphthalene (aq)	<0.1 µg/l	TM178		<0.1 #	0.323 #	<0.1 #			
Acenaphthene (aq)	<0.015 µg/l	TM178		<0.015 #	<0.03 #	0.0223 #			
Acenaphthylene (aq)	<0.011 µg/l	TM178		<0.011 #	0.0539 #	0.163 #			
Fluoranthene (aq)	<0.017 µg/l	TM178		<0.017 #	<0.034 #	0.396 #			
Anthracene (aq)	<0.015 µg/l	TM178		<0.015 #	<0.03 #	0.051 #			
Phenanthrene (aq)	<0.022 µg/l	TM178		0.0683 #	<0.044 #	0.268 #			
Fluorene (aq)	<0.014 µg/l	TM178		0.0414 #	<0.028 #	0.048 #			
Chrysene (aq)	<0.013 µg/l	TM178		0.0245 #	0.148 #	0.267 #			
Pyrene (aq)	<0.015 µg/l	TM178		0.025 #	0.087 #	0.689 #			
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178		<0.017 #	<0.034 #	0.239 #			
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178		<0.023 #	0.0725 #	0.189 #			
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178		<0.027 #	<0.054 #	0.208 #			
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178		<0.009 #	0.0485 #	0.249 #			
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178		<0.016 #	<0.032 #	0.0374 #			
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178		<0.016 #	<0.032 #	0.145 #			
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178		<0.014 #	<0.028 #	0.141 #			
PAH, Total Detected USEPA 16 (aq)	<0.247 µg/l	TM178		<0.247	0.825	3.11			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	21/08/2013	21/08/2013	21/08/2013			
			Sample Time	.	.	.			
			Date Received	22/08/2013	22/08/2013	22/08/2013			
			SDG Ref	130822-40	130822-40	130822-40			
			Lab Sample No.(s)	7976262	7976261	7976260			
			AGS Reference						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<1	<2	<1			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<2	<1			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<2	<1			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<2	<1			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<2	<1			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<2	<1			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<1	<2	<1			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<1	<2	<1			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<2	<1			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<2	<1			
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<1	<2	<1			
2-Chlorophenol (aq)	<1 µg/l	TM176		<1	<2	<1			
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<1	<2	<1			
2-Methylphenol (aq)	<1 µg/l	TM176		<1	<2	<1			
2-Nitroaniline (aq)	<1 µg/l	TM176		<1	<2	<1			
2-Nitrophenol (aq)	<1 µg/l	TM176		<1	<2	<1			
3-Nitroaniline (aq)	<1 µg/l	TM176		<1	<2	<1			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<1	<2	<1			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<1	<2	<1			
4-Chloroaniline (aq)	<1 µg/l	TM176		<1	<2	<1			
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<1	<2	<1			
4-Methylphenol (aq)	<1 µg/l	TM176		<1	<2	<1			
4-Nitrophenol (aq)	<1 µg/l	TM176		<1	<2	<1			
4-Nitroaniline (aq)	<1 µg/l	TM176		<1	<2	<1			
Azobenzene (aq)	<1 µg/l	TM176		<1	<2	<1			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<1	<2	<1			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<1	<2	<1			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<10	<20	<10			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<1	<2	<1			
Carbazole (aq)	<1 µg/l	TM176		<1	<2	<1			
Dibenzofuran (aq)	<1 µg/l	TM176		<1	<2	<1			
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1	<2	<1			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.			
tot.unfilt	Total / unfiltered sample.	Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
*	Subcontracted test.	Date Sampled	21/08/2013	21/08/2013	21/08/2013			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.			
		Date Received	22/08/2013	22/08/2013	22/08/2013			
		SDG Ref	130822-40	130822-40	130822-40			
(F)	Trigger breach confirmed	Lab Sample No.(s)	7976262	7976261	7976260			
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	<2	<1			
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	<2	<1			
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	<10	<5			
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	<2	<1			
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	<2	<1			
Pentachlorophenol (aq)	<1 µg/l	TM176	<1	<2	<1			
Phenol (aq)	<1 µg/l	TM176	<1	<2	<1			
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1	<2	<1			
Hexachloroethane (aq)	<1 µg/l	TM176	<1	<2	<1			
Nitrobenzene (aq)	<1 µg/l	TM176	<1	<2	<1			
Isophorone (aq)	<1 µg/l	TM176	<1	<2	<1			
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1	<2	<1			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	21/08/2013	21/08/2013	21/08/2013			
			Sample Time	.	.	.			
			Date Received	22/08/2013	22/08/2013	22/08/2013			
			SDG Ref	130822-40	130822-40	130822-40			
			Lab Sample No.(s)	7976262	7976261	7976260			
			AGS Reference						
GRO Surrogate % recovery**	%	TM245		100	97	95			
GRO >C5-C12	<50 µg/l	TM245		256 #	2650 #	<50 #			
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245		<3 #	<3 #	<3 #			
Benzene	<7 µg/l	TM245		<7 #	61 #	<7 #			
Toluene	<4 µg/l	TM245		<4 #	4 #	<4 #			
Ethylbenzene	<5 µg/l	TM245		<5 #	<5 #	<5 #			
m,p-Xylene	<8 µg/l	TM245		<8 #	<8 #	<8 #			
o-Xylene	<3 µg/l	TM245		<3 #	4 #	<3 #			
Sum of detected Xylenes	<11 µg/l	TM245		<11	<11	<11			
Sum of detected BTEX	<28 µg/l	TM245		<28	65	<28			
Aliphatics >C5-C6	<10 µg/l	TM245		<10	81	<10			
Aliphatics >C6-C8	<10 µg/l	TM245		33	480	<10			
Aliphatics >C8-C10	<10 µg/l	TM245		54	303	<10			
Aliphatics >C10-C12	<10 µg/l	TM245		75	909	12			
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174		<10	830	10			
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174		<10	746	17			
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174		<10	541	<10			
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174		<10	2120	27			
Aromatics >EC5-EC7	<10 µg/l	TM245		<10	61	<10			
Aromatics >EC7-EC8	<10 µg/l	TM245		<10	<10	<10			
Aromatics >EC8-EC10	<10 µg/l	TM245		37	206	<10			
Aromatics >EC10-EC12	<10 µg/l	TM245		50	606	<10			
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174		<10	210	<10			
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174		<10	262	<10			
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174		<10	282	<10			
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174		<10	754	<10			
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174		256	5520	70			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	21/08/2013	21/08/2013	21/08/2013			
			Sample Time	.	.	.			
			Date Received	22/08/2013	22/08/2013	22/08/2013			
			SDG Ref	130822-40	130822-40	130822-40			
			Lab Sample No.(s)	7976262	7976261	7976260			
			AGS Reference						
Dibromofluoromethane**	%	TM208		109	105	110			
Toluene-d8**	%	TM208		99.8	99.7	99.4			
4-Bromofluorobenzene**	%	TM208		100	100	97.1			
Dichlorodifluoromethane	<1 µg/l	TM208		<1	<1	<1			
Chloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Vinyl chloride	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Chloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Trichlorofluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Carbon disulphide	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Dichloromethane	<3 µg/l	TM208		<3 #	<3 #	<3 #			
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #			
trans-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1-Dichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
cis-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
2,2-Dichloropropane	<1 µg/l	TM208		<1	<1	<1			
Bromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Chloroform	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,1-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Carbontetrachloride	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dichloroethane	<1 µg/l	TM208		<1	<1	<1			
Benzene	<1 µg/l	TM208		<1 #	48.3 #	<1 #			
Trichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Dibromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromodichloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
cis-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Toluene	<1 µg/l	TM208		<1 #	4.18 #	<1 #			
trans-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,2-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	21/08/2013	21/08/2013	21/08/2013			
			Sample Time	.	.	.			
			Date Received	22/08/2013	22/08/2013	22/08/2013			
			SDG Ref	130822-40	130822-40	130822-40			
			Lab Sample No.(s)	7976262	7976261	7976260			
			AGS Reference						
1,3-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Tetrachloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Dibromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dibromoethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Chlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
m,p-Xylene	<1 µg/l	TM208		<1 #	1.1 #	<1 #			
o-Xylene	<1 µg/l	TM208		<1 #	2.03 #	<1 #			
Styrene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromoform	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Isopropylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1			
1,2,3-Trichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Bromobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Propylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
2-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,3,5-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
4-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
tert-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2,4-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
sec-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
4-iso-Propyltoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,3-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,4-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
n-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,2-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1			
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208		<1	<1	<1			
1,2,4-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Hexachlorobutadiene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1 #	<1 #	<1 #			
Naphthalene	<1 µg/l	TM208		<1 #	<1 #	<1 #			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	MSMW070d	MSMW070S2	P1BH005			
			Depth (m)	.	.	.			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	21/08/2013	21/08/2013	21/08/2013			
			Sample Time	.	.	.			
			Date Received	22/08/2013	22/08/2013	22/08/2013			
			SDG Ref	130822-40	130822-40	130822-40			
			Lab Sample No.(s)	7976262	7976261	7976260			
			AGS Reference						
1,2,3-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #			
1,3,5-Trichlorobenzene	<1 µg/l	TM208		<1	<1	<1			

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit		
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM245	By GC-FID	Determination of GRO by Headspace in waters		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7976262	7976261	7976260
Customer Sample Ref.	MSMW070d	MSMW070S2	P1BH005
AGS Ref.			
Depth			
Type	LIQUID	LIQUID	LIQUID
Ammoniacal Nitrogen	27-Aug-2013	27-Aug-2013	27-Aug-2013
Anions by Kone (w)	27-Aug-2013	29-Aug-2013	27-Aug-2013
BOD True Total	28-Aug-2013	28-Aug-2013	28-Aug-2013
COD Unfiltered	25-Aug-2013	25-Aug-2013	25-Aug-2013
Conductivity (at 20 deg.C)	23-Aug-2013	23-Aug-2013	23-Aug-2013
Dissolved Metals by ICP-MS	28-Aug-2013	28-Aug-2013	28-Aug-2013
EPH CWG (Aliphatic) Aqueous GC (W)	28-Aug-2013	28-Aug-2013	28-Aug-2013
EPH CWG (Aromatic) Aqueous GC (W)	28-Aug-2013	28-Aug-2013	28-Aug-2013
GRO by GC-FID (W)	25-Aug-2013	25-Aug-2013	25-Aug-2013
Mercury Dissolved	28-Aug-2013	28-Aug-2013	28-Aug-2013
Nitrite by Kone (w)	25-Aug-2013	28-Aug-2013	25-Aug-2013
PAH Spec MS - Aqueous (W)	29-Aug-2013	29-Aug-2013	29-Aug-2013
pH Value	27-Aug-2013	27-Aug-2013	27-Aug-2013
Phenols by HPLC (W)	28-Aug-2013	28-Aug-2013	28-Aug-2013
Suspended Solids	27-Aug-2013	27-Aug-2013	27-Aug-2013
SVOC MS (W) - Aqueous	29-Aug-2013	29-Aug-2013	29-Aug-2013
TPH CWG (W)	28-Aug-2013	28-Aug-2013	28-Aug-2013
VOC MS (W)	24-Aug-2013	24-Aug-2013	24-Aug-2013

SDG:	130822-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0482
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	239980
Client Reference:	Commercial Area	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

Date:	10 September 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130822-68
Your Reference:	CA Hotspot
Location:	Coed Darcy
Report No:	241344

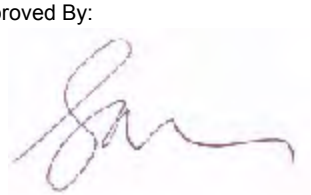
This report has been revised and directly supersedes 240182 in its entirety.

We received 22 samples on Thursday August 22, 2013 and 22 of these samples were scheduled for analysis which was completed on Tuesday September 10, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7977762	CAV043 BASE 1		0.50	21/08/2013
7977763	CAV043 BASE 2		0.50	21/08/2013
7977783	CAV141 BASE 1		0.50	21/08/2013
7977786	CAV141 BASE 2		0.50	21/08/2013
7977772	CAV043 E		0.30	21/08/2013
7977793	CAV141 E		0.30	21/08/2013
7977764	CAV043 N		0.30	21/08/2013
7977788	CAV141 N		0.30	21/08/2013
7977765	CAV043 S		0.30	21/08/2013
7977790	CAV141 S		0.30	21/08/2013
7977774	CAV043 W		0.30	21/08/2013
7977795	CAV141 W		0.30	21/08/2013
7977775	CDV009 BASE 1		0.50	21/08/2013
7977776	CDV009 BASE 2		0.50	21/08/2013
7977779	CDV009 N		0.30	21/08/2013
7977780	CDV009 NW		0.30	21/08/2013
7977781	CDV009 W		0.30	21/08/2013
7977750	Pb HOTSPOTS VALIDATIONS 1		0.30	21/08/2013
7977753	Pb HOTSPOTS VALIDATIONS 2		0.30	21/08/2013
7977754	Pb HOTSPOTS VALIDATIONS 3		0.30	21/08/2013
7977756	Pb HOTSPOTS VALIDATIONS 4		0.30	21/08/2013
7977758	Pb HOTSPOTS VALIDATIONS 5		0.30	21/08/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

ALcontrol Laboratories

CERTIFICATE OF ANALYSIS

Validated

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

SOLID

Results Legend

- X — Test
- N — No Determination Possible

Lab Sample No(s)			7977762	7977763	7977783	7977786	7977772	7977793	7977764	7977788	7977765	7977790	7977774	7977795	7977775	7977776	7977779	7977780	7977781	7977750			7977753			7977754			7977756			7977758		
Customer Sample Reference			CAV043 BASE 1	CAV043 BASE 2	CAV141 BASE 1	CAV141 BASE 2	CAV043 E	CAV141 E	CAV043 N	CAV141 N	CAV043 S	CAV141 S	CAV043 W	CAV141 W	CDV009 BASE 1	CDV009 BASE 2	CDV009 N	CDV009 NW	CDV009 W	Pb HOTSPOTS VALIDATIONS 1			Pb HOTSPOTS VALIDATIONS 2			Pb HOTSPOTS VALIDATIONS 3			Pb HOTSPOTS VALIDATIONS 4			Pb HOTSPOTS VALIDATIONS 5		
AGS Reference																																		
Depth (m)			0.50	0.50	0.50	0.50	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.50	0.50	0.30	0.30	0.30	0.30			0.30			0.30			0.30			0.30		
Container			400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 16			X	X		X		X		X		X	X	X	X	X	X		X			X			X			X			X	
Asbestos Quantification - Full	All	NDPs: 0 Tests: 16			X	X		X		X		X		X	X	X	X	X	X		X			X			X			X			X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 5																		X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 5																		X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 5																				X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 11	X	X			X		X		X		X							X			X			X			X			X		
pH	All	NDPs: 0 Tests: 5																			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 10	X	X					X		X		X							X			X			X			X			X		
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 5																		X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 5																		X			X			X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 5																		X			X			X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 5																				X			X			X			X			X

14:43:19 10/09/2013

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7977762	CAV043 BASE 1	0.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
7977763	CAV043 BASE 2	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7977772	CAV043 E	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
7977764	CAV043 N	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
7977765	CAV043 S	0.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7977774	CAV043 W	0.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
7977750	Pb HOTSPOTS VALIDATIONS 1	0.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
7977753	Pb HOTSPOTS VALIDATIONS 2	0.30	Beige	Loamy Sand	0.1 - 2 mm	Stones	N/A
7977754	Pb HOTSPOTS VALIDATIONS 3	0.30	Beige	Loamy Sand	0.1 - 2 mm	Crushed Brick	Stones
7977756	Pb HOTSPOTS VALIDATIONS 4	0.30	Beige	Loamy Sand	0.1 - 2 mm	Stones	None
7977758	Pb HOTSPOTS VALIDATIONS 5	0.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Crushed Brick	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

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Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV043 BASE 1	CAV043 BASE 2	CAV043 E	CAV043 N	CAV043 S	CAV043 W
			Depth (m)	0.50	0.50	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977762	7977763	7977772	7977764	7977765	7977774
			AGS Reference						
Lead	<0.7 mg/kg	TM181		18.5 M	16.4 M	125 M	87.5 M	95.6 M	274 M

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Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
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*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
			Depth (m)	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
			AGS Reference					
Soil Organic Matter (SOM)	<0.35 %	TM132		2.84 #	4.67 #	4.26 #	5.17 #	2.07 #
pH	1 pH Units	TM133		7.83 M	7.89 M	7.76 M	7.92 M	8.16 M
Arsenic	<0.6 mg/kg	TM181		21.4 M	16.4 M	22.8 M	25.9 M	16.2 M
Cadmium	<0.02 mg/kg	TM181		0.429 M	0.353 M	0.521 M	0.867 M	0.424 M
Chromium	<0.9 mg/kg	TM181		13.3 M	11.3 M	14 M	15.2 M	12.1 M
Copper	<1.4 mg/kg	TM181		57.5 M	53.1 M	79.9 M	89.5 M	49.5 M
Lead	<0.7 mg/kg	TM181		82 M	65.1 M	119 M	128 M	114 M
Mercury	<0.14 mg/kg	TM181		0.383 M	0.342 M	0.444 M	0.537 M	0.591 M
Nickel	<0.2 mg/kg	TM181		19.2 M	17.7 M	20.3 M	22.3 M	21.8 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		24 #	24 #	23.5 #	27.4 #	56.3 #
Zinc	<1.9 mg/kg	TM181		257 M	295 M	331 M	341 M	267 M

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Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Semi Volatile Organic Compounds

Results Legend	
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aq	Aqueous / settled sample.
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Component	LOD/Units	Method	Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
			Depth (m)	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
			AGS Reference					
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	296	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100

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Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
			Depth (m)	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
			AGS Reference					
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		217	154	<100	155	132
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		245	243	171	387	242
Benzo(b)fluoranthene	<100 µg/kg	TM157		245	285	238	409	278
Benzo(k)fluoranthene	<100 µg/kg	TM157		223	235	154	329	213
Benzo(a)pyrene	<100 µg/kg	TM157		290	296	236	409	292
Benzo(g,h,i)perylene	<100 µg/kg	TM157		197	215	166	264	197
Chrysene	<100 µg/kg	TM157		436	371	294	577	390
Fluoranthene	<100 µg/kg	TM157		353	273	216	629	342
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		170	186	145	246	171
Phenanthrene	<100 µg/kg	TM157		269	246	150	297	366
Pyrene	<100 µg/kg	TM157		588	461	302	812	482
Naphthalene	<100 µg/kg	TM157		128	<100	<100	<100	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100

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Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
			Depth (m)	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
			AGS Reference					
GRO Surrogate % recovery**	%	TM089		53	30	27	56	63
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		6890 M	4020 M	2700 M	9340 M	6780 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	<5 M	<5 M	<5 M
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		12.7 M	<2 M	4.56 M	20.7 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		6.9 M	<3 M	3.42 M	18.4 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M	9.2 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	17.1 M	46 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	17.1	55.2	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	25.1	94.3	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		16.1	11.5	<10	18.4	22.4
Aliphatics >C6-C8	<10 µg/kg	TM089		266	227	100	507	507
Aliphatics >C8-C10	<10 µg/kg	TM089		1330	826	496	2030	1720
Aliphatics >C10-C12	<10 µg/kg	TM089		2620	1440	1050	3200	2030
Aliphatics >C12-C16	<100 µg/kg	TM173		197000	107000	147000	131000	67000
Aliphatics >C16-C21	<100 µg/kg	TM173		467000	192000	305000	351000	297000
Aliphatics >C21-C35	<100 µg/kg	TM173		911000	464000	635000	747000	708000
Aliphatics >C35-C44	<100 µg/kg	TM173		161000	73200	124000	107000	109000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1740000	835000	1210000	1340000	1180000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		12.7	<10	<10	20.7	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		898	550	352	1430	1150
Aromatics >EC10-EC12	<10 µg/kg	TM089		1750	960	697	2130	1350
Aromatics >EC12-EC16	<100 µg/kg	TM173		36100	17400	38300	32800	22300
Aromatics >EC16-EC21	<100 µg/kg	TM173		223000	115000	188000	233000	206000
Aromatics >EC21-EC35	<100 µg/kg	TM173		545000	344000	503000	470000	472000
Aromatics >EC35-EC44	<100 µg/kg	TM173		174000	95500	170000	131000	201000
Aromatics >EC40-EC44	<100 µg/kg	TM173		72100	34400	71000	57400	50600
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		978000	571000	900000	866000	902000
Total Aliphatics >C5-35	<100 µg/kg	TM173		1580000	764000	1090000	1240000	1080000
Total Aromatics >C5-35	<100 µg/kg	TM173		806000	477000	731000	739000	703000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		2390000	1240000	1820000	1970000	1780000

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

TPH CWG (S)

Results Legend		Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
#	ISO17025 accredited.						
M	*m*CERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						
(F)	Trigger breach confirmed						
1-4&+§@	Sample deviation (see appendix)						
		Depth (m)	0.30	0.30	0.30	0.30	0.30
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
		Sample Time	.	.	.	.	.
		Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
		SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
		Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
		AGS Reference					

Component	LOD/Units	Method					
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2720000	1410000	2110000	2210000	2090000

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
			Depth (m)	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
			AGS Reference					
Dibromofluoromethane**	%	TM116		115	114	114	113	114
Toluene-d8**	%	TM116		101	100	100	101	102
4-Bromofluorobenzene**	%	TM116		109	108	106	105	104
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<2000	<2000	<2000	<2000	<2000
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
			Depth (m)	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
			AGS Reference					
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
			Depth (m)	0.30	0.30	0.30	0.30	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013
			Sample Time	.	.	.	.	.
			Date Received	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013
			SDG Ref	130822-68	130822-68	130822-68	130822-68	130822-68
			Lab Sample No.(s)	7977750	7977753	7977754	7977756	7977758
			AGS Reference					
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 BASE 1 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977783 TM048	29/8/13	Paul Poynton	loose fibres and acm debris typical of insulation material	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 BASE 2 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977786 TM048	30/8/13	Tomasz Pawlikowski	loose fibres	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 E 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977793 TM048	30/8/13	Tomasz Pawlikowski	loose fibres and debris	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 N 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977788 TM048	29/8/13	Paul Poynton	loose fibres	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 S 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977790 TM048	30/8/13	Tomasz Pawlikowski	loose fibres/debris	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 W 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977795 TM048	30/8/13	Paul Poynton	loose fibres	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 BASE 1 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977775 TM048	30/8/13	Tomasz Pawlikowski	loose fibres	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 BASE 2 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977776 TM048	30/8/13	Tomasz Pawlikowski	loose fibres	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 N 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977779 TM048	29/8/13	Paul Poynton	loose fibres	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 NW 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977780 TM048	30/8/13	Tomasz Pawlikowski	loose fibres	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 W 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977781 TM048	30/8/13	Lauren Sargeant	loose fibres	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 1 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977750 TM048	29/08/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 2 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977753 TM048	29/08/13	Lauren Sargeant	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 3 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977754 TM048	29/08/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 4 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977756 TM048	29/08/13	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 5 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977758 TM048	29/08/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 BASE 1 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977783 TM 304	None (#)	N/C	1.2742 (#)	0.0040 (#)	1.2782 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 BASE 2 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977786 TM 304	None (#)	N/C	0.2415 (#)	<0.001 (#)	0.2423 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 E 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977793 TM 304	None (#)	N/C	0.0158 (#)	0.0018 (#)	0.0176 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 N 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977788 TM 304	None (#)	N/C	0.0823 (#)	0.0022 (#)	0.0845 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 S 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977790 TM 304	None (#)	N/C	0.1244 (#)	0.0023 (#)	0.1267 (#)

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV141 W 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977795 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 BASE 1 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977775 TM 304	None (#)	N/C	0.0125 (#)	<0.001 (#)	0.0129 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 BASE 2 0.50 SOLID 21/08/2013 00:00:00 130822-68 7977776 TM 304	None (#)	N/C	0.0036 (#)	<0.001 (#)	0.0042 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 N 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977779 TM 304	None (#)	N/C	0.0087 (#)	<0.001 (#)	0.0093 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 NW 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977780 TM 304	None (#)	N/C	0.0055 (#)	<0.001 (#)	0.0057 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CDV009 W 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977781 TM 304	None (#)	Fibres found during gravimetric analysis, but too small/few to accurately weigh.	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 1 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977750 TM 304	None (#)	Amphibole fibres found during PCM analysis.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 2 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977753 TM 304	None (#)	N/C	0.0026 (#)	<0.001 (#)	0.0028 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 3 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977754 TM 304	None (#)	N/C	0.0019 (#)	<0.001 (#)	0.0022 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 4 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977756 TM 304	Amosite (loose fibres) (#)	None.	0.0024 (#)	<0.001 (#)	0.0032 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Pb HOTSPOTS VALIDATIONS 5 0.30 SOLID 21/08/2013 00:00:00 130822-68 7977758 TM 304	None (#)	N/C	0.0085 (#)	0.0013 (#)	0.0098 (#)

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Test Completion Dates

Lab Sample No(s)	7977762	7977763	7977783	7977786	7977772	7977793	7977764	7977788	7977765	7977790
Customer Sample Ref.	CAV043 BASE 1	CAV043 BASE 2	CAV141 BASE 1	CAV141 BASE 2	CAV043 E	CAV141 E	CAV043 N	CAV141 N	CAV043 S	CAV141 S
AGS Ref.										
Depth	0.50	0.50	0.50	0.50	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			30-Aug-2013	30-Aug-2013		30-Aug-2013		30-Aug-2013		30-Aug-2013
Asbestos Quantification - Full			30-Aug-2013	30-Aug-2013		30-Aug-2013		30-Aug-2013		30-Aug-2013
Metals in solid samples by OES	28-Aug-2013	28-Aug-2013			28-Aug-2013		29-Aug-2013		28-Aug-2013	
Sample description	23-Aug-2013	23-Aug-2013			23-Aug-2013		23-Aug-2013		23-Aug-2013	

Lab Sample No(s)	7977774	7977795	7977775	7977776	7977779	7977780	7977781	7977750	7977753	7977754
Customer Sample Ref.	CAV043 W	CAV141 W	CDV009 BASE 1	CDV009 BASE 2	CDV009 N	CDV009 NW	CDV009 W	Pb HOTSPOTS VALIDATIONS 1	Pb HOTSPOTS VALIDATIONS 2	Pb HOTSPOTS VALIDATIONS 3
AGS Ref.										
Depth	0.30	0.30	0.50	0.50	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		30-Aug-2013	30-Aug-2013	30-Aug-2013	30-Aug-2013	30-Aug-2013	30-Aug-2013	29-Aug-2013	29-Aug-2013	29-Aug-2013
Asbestos Quantification - Full		30-Aug-2013	30-Aug-2013	30-Aug-2013	30-Aug-2013	30-Aug-2013	30-Aug-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013
EPH CWG (Aliphatic) GC (S)								30-Aug-2013	30-Aug-2013	30-Aug-2013
EPH CWG (Aromatic) GC (S)								30-Aug-2013	30-Aug-2013	30-Aug-2013
GRO by GC-FID (S)								30-Aug-2013	30-Aug-2013	30-Aug-2013
Metals in solid samples by OES	28-Aug-2013							28-Aug-2013	30-Aug-2013	30-Aug-2013
pH								30-Aug-2013	30-Aug-2013	30-Aug-2013
Sample description	23-Aug-2013							23-Aug-2013	23-Aug-2013	23-Aug-2013
Semi Volatile Organic Compounds								30-Aug-2013	30-Aug-2013	30-Aug-2013
Total Organic Carbon								29-Aug-2013	30-Aug-2013	30-Aug-2013
TPH CWG GC (S)								30-Aug-2013	30-Aug-2013	30-Aug-2013
VOC MS (S)								31-Aug-2013	31-Aug-2013	31-Aug-2013

Lab Sample No(s)	7977756	7977758
Customer Sample Ref.	Pb HOTSPOTS VALIDATIONS 4	Pb HOTSPOTS VALIDATIONS 5
AGS Ref.		
Depth	0.30	0.30
Type	SOLID	SOLID
Asbestos ID in Solid Samples	29-Aug-2013	29-Aug-2013
Asbestos Quantification - Full	10-Sep-2013	10-Sep-2013
EPH CWG (Aliphatic) GC (S)	30-Aug-2013	30-Aug-2013
EPH CWG (Aromatic) GC (S)	30-Aug-2013	30-Aug-2013
GRO by GC-FID (S)	30-Aug-2013	30-Aug-2013
Metals in solid samples by OES	30-Aug-2013	30-Aug-2013
pH	30-Aug-2013	30-Aug-2013
Sample description	23-Aug-2013	23-Aug-2013
Semi Volatile Organic Compounds	30-Aug-2013	30-Aug-2013
Total Organic Carbon	30-Aug-2013	30-Aug-2013
TPH CWG GC (S)	30-Aug-2013	30-Aug-2013
VOC MS (S)	31-Aug-2013	31-Aug-2013

SDG:	130822-68	**Location:**	Coed Darcy	**Order Number:**	CD0483
Job:	H_ATKINS_LDC-178	**Customer:**	Atkins Global Ltd	**Report Number:**	241344
Client Reference:	CA Hotspot	**Attention:**	Adam Putt	**Superseded Report:**	240182

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

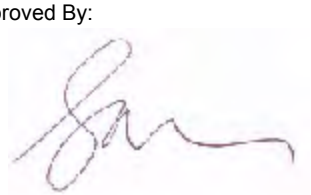
Date:	11 September 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130905-30
Your Reference:	Stockpiles
Location:	Coed Darcy Urban Village
Report No:	241452

We received 6 samples on Thursday September 05, 2013 and 6 of these samples were scheduled for analysis which was completed on Wednesday September 11, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
8050511	SP87C-1			03/09/2013
8050513	SP87C-2			03/09/2013
8050515	SP87C-3			03/09/2013
8050517	SP87C-4			03/09/2013
8050518	SP87C-5			03/09/2013
8050519	SP87C-6			03/09/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	8050511	8050513	8050515	8050517	8050518	8050519
			Customer Sample Reference	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			AGS Reference						
			Depth (m)						
			Container	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 6			X			X			X			X			X			X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 6			X			X			X			X		X						X
Metals in solid samples by OES	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 6		X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X	
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X	
VOC MS (S)	All	NDPs: 0 Tests: 6			X			X			X			X		X						X

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
8050511	SP87C-1		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
8050513	SP87C-2		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
8050515	SP87C-3		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
8050517	SP87C-4		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
8050518	SP87C-5		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
8050519	SP87C-6		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		1.43 #	1.69 #	2.78 #	1.41 #	1.23 #	1.58 #
pH	1 pH Units	TM133		8.39 M	8.38 M	8.4 M	8.43 M	8.38 M	8.37 M
Arsenic	<0.6 mg/kg	TM181		8.25 M	11.7 M	11.5 M	12.6 M	8.1 M	8.77 M
Cadmium	<0.02 mg/kg	TM181		0.365 M	0.434 M	0.434 M	0.293 M	1.03 M	0.26 M
Chromium	<0.9 mg/kg	TM181		10.9 M	15.2 M	14.4 M	14.6 M	11 M	11.7 M
Copper	<1.4 mg/kg	TM181		12 M	15.3 M	17.2 M	18.1 M	11.4 M	11.4 M
Lead	<0.7 mg/kg	TM181		53.4 M	45.9 M	46.7 M	45.9 M	37.6 M	30.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		8.89 M	11.6 M	13.5 M	12.9 M	8.46 M	9.34 M
Selenium	<1 mg/kg	TM181		<1 #	1.08 #	1.01 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.1 #	27.3 #	26.7 #	23.7 #	15.4 #	16.9 #
Zinc	<1.9 mg/kg	TM181		65.2 M	109 M	130 M	93.2 M	75.9 M	59.7 M

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
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tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	136	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
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1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthylene	<100 µg/kg	TM157		<100	161	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	1290	<100	135	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		359	5790	396	519	364	339
Benzo(b)fluoranthene	<100 µg/kg	TM157		262	4350	303	430	282	218
Benzo(k)fluoranthene	<100 µg/kg	TM157		289	4210	299	402	299	254
Benzo(a)pyrene	<100 µg/kg	TM157		319	5220	344	463	319	297
Benzo(g,h,i)perylene	<100 µg/kg	TM157		154	2420	167	210	160	130
Chrysene	<100 µg/kg	TM157		359	5750	384	531	403	351
Fluoranthene	<100 µg/kg	TM157		681	9390	741	976	694	675
Fluorene	<100 µg/kg	TM157		<100	164	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		154	2460	167	211	157	127
Phenanthrene	<100 µg/kg	TM157		317	1580	426	521	302	370
Pyrene	<100 µg/kg	TM157		536	7900	600	776	566	543
Naphthalene	<100 µg/kg	TM157		<100	126	371	<100	<100	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	680	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
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1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		87	122	91	84	73 2	90
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<44 M	<44 M	<44 M	<44 M	<44 2 M	<44 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	<5 M	<5 M	<5 2 M	<5 M
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
Toluene	<2 µg/kg	TM089		2.24 M	<2 M	<2 M	2.26 M	<2 2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	<3 2 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M	<6 M	<6 2 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	<3 2 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9 2	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24 2	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		2260	3920	11100	30800	11800	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	4410	5050	21700	16000	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2260	8330	16200	52500	27800	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	<10	<10	<10	<10 2	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173		252	<100	644	258	695	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		6270	4520	4910	5910	3670	4080
Aromatics >EC21-EC35	<100 µg/kg	TM173		44900	24500	41100	86900	30300	24400
Aromatics >EC35-EC44	<100 µg/kg	TM173		29600	18500	32100	79300	35200	21700
Aromatics >EC40-EC44	<100 µg/kg	TM173		12600	8840	14800	35900	16500	10300
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		81000	47400	78700	172000	69800	50200
Total Aliphatics >C5-35	<100 µg/kg	TM173		2260	3930	11100	30800	11800	<100
Total Aromatics >C5-35	<100 µg/kg	TM173		51400	28900	46600	93100	34700	28500
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		53600	32900	57700	124000	46500	28500

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

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1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		83200	55800	94800	225000	97700	50200

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

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Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
Dibromofluoromethane**	%	TM116		91.9	94.4	106	96.5	79.1 2	104
Toluene-d8**	%	TM116		99	98.3	99	98.5	99.7 2	101
4-Bromofluorobenzene**	%	TM116		109	113	105	108	119 2	101
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 2 M	<4 M
Chloromethane	<7 µg/kg	TM116		<7	<7	<7	<7	<7 2	<7
Vinyl Chloride	<10 µg/kg	TM116		<10	<10	<10	<10	<10 2	<10
Bromomethane	<13 µg/kg	TM116		<13 M	<13 M	<13 M	<13 M	<13 2 M	<13 M
Chloroethane	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<14 M	<14 2 M	<14 M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<6 M	<6 M	<6 M	<6 2 M	<6 M
1,1-Dichloroethene	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 2 #	<10 #
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 2 M	<7 M
Dichloromethane	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 2 #	<10 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<11 M	<11 2 M	<11 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<11 M	<11 2 M	<11 M
1,1-Dichloroethane	<8 µg/kg	TM116		<8 M	<8 M	<8 M	<8 M	<8 2 M	<8 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<5 M	<5 2 M	<5 M
2,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<12 M	<12 2 M	<12 M
Bromochloromethane	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<14 M	<14 2 M	<14 M
Chloroform	<8 µg/kg	TM116		<8 M	<8 M	<8 M	<8 M	<8 2 M	<8 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 2 M	<7 M
1,1-Dichloropropene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<11 M	<11 2 M	<11 M
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<14 M	<14 2 M	<14 M
1,2-Dichloroethane	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<5 M	<5 2 M	<5 M
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 2 M	<9 M
Trichloroethene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 2 M	<9 M
1,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<12 M	<12 2 M	<12 M
Dibromomethane	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 2 M	<9 M
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 2 M	<7 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<14 M	<14 2 M	<14 M
Toluene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<5 M	<5 M	8.02 M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<100	<100	<100	<100	<100 2	<100
1,1,2-Trichloroethane	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<7 #	<7 #	<7 #	<7 #	<7 2 #	<7 #
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<5 M	<5 2 M	<5 M
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<13 M	<13 M	<13 M	<13 2 M	<13 M
1,2-Dibromoethane	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<12 M	<12 2 M	<12 M
Chlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<5 M	<5 2 M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 2 M	<4 M
p/m-Xylene	<14 µg/kg	TM116		<14 #	<14 #	<14 #	<14 #	<14 2 #	<14 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
Styrene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
Bromoform	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<5 M	<5 2 M	<5 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 2 #	<10 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<17 M	<17 M	<17 M	<17 M	<17 2 M	<17 M
Bromobenzene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
Propylbenzene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<11 M	<11 2 M	<11 M
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 2 M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<8 #	<8 #	<8 #	<8 2 #	<8 #
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<12 M	<12 2 M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<12 #	<12 #	<12 #	<12 2 #	<12 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<9 #	<9 #	<9 #	<9 2 #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<11 M	<11 2 M	<11 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<6 M	<6 M	<6 2 M	<6 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<5 M	<5 2 M	<5 M
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 2 M	<10 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<12 M	<12 2 M	<12 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<14 M	<14 2 M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<15	<15	<15	<15 2	<15
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<6 #	<6 #	<6 #	<6 2 #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<12	<12	<12	<12 2	<12
Naphthalene	<13 µg/kg	TM116		<13 M	<13 M	<13 M	<13 M	<13 M	<13 M

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013	03/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013	05/09/2013
			SDG Ref	130905-30	130905-30	130905-30	130905-30	130905-30	130905-30
			Lab Sample No.(s)	8050511	8050513	8050515	8050517	8050518	8050519
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<6 M	<6 M	<6 2 M	<6 M

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP87C-1 SOLID 03/09/2013 00:00:00 130905-30 8050511 TM048	9/9/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP87C-2 SOLID 03/09/2013 00:00:00 130905-30 8050513 TM048	9/9/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP87C-3 SOLID 03/09/2013 00:00:00 130905-30 8050515 TM048	9/9/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP87C-4 SOLID 03/09/2013 00:00:00 130905-30 8050517 TM048	9/9/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP87C-5 SOLID 03/09/2013 00:00:00 130905-30 8050518 TM048	9/9/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP87C-6 SOLID 03/09/2013 00:00:00 130905-30 8050519 TM048	9/9/13	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	8050511	8050513	8050515	8050517	8050518	8050519
Customer Sample Ref.	SP87C-1	SP87C-2	SP87C-3	SP87C-4	SP87C-5	SP87C-6
AGS Ref.						
Depth						
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	09-Sep-2013	09-Sep-2013	09-Sep-2013	09-Sep-2013	09-Sep-2013	09-Sep-2013
EPH CWG (Aliphatic) GC (S)	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013
EPH CWG (Aromatic) GC (S)	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013
GRO by GC-FID (S)	08-Sep-2013	10-Sep-2013	08-Sep-2013	08-Sep-2013	08-Sep-2013	08-Sep-2013
Metals in solid samples by OES	11-Sep-2013	11-Sep-2013	11-Sep-2013	11-Sep-2013	11-Sep-2013	11-Sep-2013
pH	07-Sep-2013	07-Sep-2013	07-Sep-2013	07-Sep-2013	07-Sep-2013	07-Sep-2013
Sample description	06-Sep-2013	06-Sep-2013	06-Sep-2013	06-Sep-2013	06-Sep-2013	06-Sep-2013
Semi Volatile Organic Compounds	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013
Total Organic Carbon	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013
TPH CWG GC (S)	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013	10-Sep-2013
VOC MS (S)	09-Sep-2013	09-Sep-2013	09-Sep-2013	09-Sep-2013	09-Sep-2013	09-Sep-2013

SDG:	130905-30	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0489
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	241452
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
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Attention: Adam Putt

CERTIFICATE OF ANALYSIS

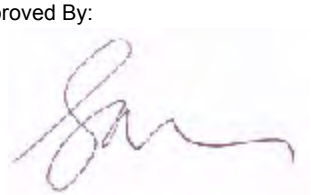
Date:	17 September 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130911-26
Your Reference:	
Location:	Coed Darcy
Report No:	242313

We received 1 sample on Wednesday September 11, 2013 and 1 of these samples were scheduled for analysis which was completed on Tuesday September 17, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
8081893	MSMW06952			10/09/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container					
			8081893	MSMW06952			1l Glass bottle (ALE	1lplastic (ALE221)	H2SO4 (ALE244)	HNO3 Filtered (ALE	NaOH (ALE245)	Vial (ALE297)
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 1							X			
BOD True Total	All	NDPs: 0 Tests: 1						X				
COD Unfiltered	All	NDPs: 0 Tests: 1						X				
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 1						X				
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 1								X		
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 1					X					
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 1					X					
GRO by GC-FID (W)	All	NDPs: 0 Tests: 1										X
Mercury Dissolved	All	NDPs: 0 Tests: 1					X					
Nitrite by Kone (w)	All	NDPs: 0 Tests: 1									X	
pH Value	All	NDPs: 0 Tests: 1						X				
Phenols by HPLC (W)	All	NDPs: 0 Tests: 1							X			
Suspended Solids	All	NDPs: 0 Tests: 1						X				
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 1					X					
TPH CWG (W)	All	NDPs: 0 Tests: 1					X					

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			8081893	MSMW06952			1l Glass bottle (ALE / 1lplastic (ALE221) / H2SO4 (ALE244) / HNO3 Filtered (ALE / NaOH (ALE245) / Vial (ALE297)
VOC MS (W)	All	NDPs: 0 Tests: 1					X

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	MSMW06952
Depth (m)	.
Sample Type	Water(GW/SW)
Date Sampled	10/09/2013
Sample Time	.
Date Received	11/09/2013
SDG Ref	130911-26
Lab Sample No.(s)	8081893
AGS Reference	

Component	LOD/Units	Method	
Suspended solids, Total	<2 mg/l	TM022	88.5 #
BOD, unfiltered	<1 mg/l	TM045	<50 #
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	2.75 #
COD, unfiltered	<7 mg/l	TM107	57.1 #
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120	0.703 #
Arsenic (diss.filt)	<0.12 µg/l	TM152	17.3 #
Cadmium (diss.filt)	<0.1 µg/l	TM152	<0.1 #
Chromium (diss.filt)	<0.22 µg/l	TM152	1.31 #
Copper (diss.filt)	<0.85 µg/l	TM152	<0.85 #
Lead (diss.filt)	<0.02 µg/l	TM152	0.1 #
Nickel (diss.filt)	<0.15 µg/l	TM152	<0.15 #
Selenium (diss.filt)	<0.39 µg/l	TM152	5 #
Zinc (diss.filt)	<0.41 µg/l	TM152	2.6 #
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #
Nitrite as NO2	<0.05 mg/l	TM184	<0.05 #
pH	<1 pH Units	TM256	6.92 #
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016 #

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	MSMW06952
Depth (m)	.
Sample Type	Water(GW/SW)
Date Sampled	10/09/2013
Sample Time	.
Date Received	11/09/2013
SDG Ref	130911-26
Lab Sample No.(s)	8081893
AGS Reference	

Component	LOD/Units	Method	
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	1.09
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	4.96
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1
2-Chlorophenol (aq)	<1 µg/l	TM176	<1
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1
2-Methylphenol (aq)	<1 µg/l	TM176	<1
2-Nitroaniline (aq)	<1 µg/l	TM176	<1
2-Nitrophenol (aq)	<1 µg/l	TM176	<1
3-Nitroaniline (aq)	<1 µg/l	TM176	<1
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1
4-Chloroaniline (aq)	<1 µg/l	TM176	<1
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1
4-Methylphenol (aq)	<1 µg/l	TM176	<1
4-Nitrophenol (aq)	<1 µg/l	TM176	<1
4-Nitroaniline (aq)	<1 µg/l	TM176	<1
Azobenzene (aq)	<1 µg/l	TM176	<1
Acenaphthylene (aq)	<1 µg/l	TM176	<1
Acenaphthene (aq)	<1 µg/l	TM176	<1
Anthracene (aq)	<1 µg/l	TM176	<1
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<10
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	MSMW06952
Depth (m)	.
Sample Type	Water(GW/SW)
Date Sampled	10/09/2013
Sample Time	.
Date Received	11/09/2013
SDG Ref	130911-26
Lab Sample No.(s)	8081893
AGS Reference	

Component	LOD/Units	Method	
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1
Carbazole (aq)	<1 µg/l	TM176	<1
Chrysene (aq)	<1 µg/l	TM176	<1
Dibenzofuran (aq)	<1 µg/l	TM176	<1
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1
Diethyl phthalate (aq)	<1 µg/l	TM176	<1
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5
Fluoranthene (aq)	<1 µg/l	TM176	<1
Fluorene (aq)	<1 µg/l	TM176	<1
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1
Pentachlorophenol (aq)	<1 µg/l	TM176	<1
Phenol (aq)	<1 µg/l	TM176	<1
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1
Hexachloroethane (aq)	<1 µg/l	TM176	<1
Nitrobenzene (aq)	<1 µg/l	TM176	<1
Naphthalene (aq)	<1 µg/l	TM176	7.56
Isophorone (aq)	<1 µg/l	TM176	<1
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1
Phenanthrene (aq)	<1 µg/l	TM176	<1
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1
Pyrene (aq)	<1 µg/l	TM176	<1

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

TPH CWG (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	MSMW06952
Depth (m)	.
Sample Type	Water(GW/SW)
Date Sampled	10/09/2013
Sample Time	.
Date Received	11/09/2013
SDG Ref	130911-26
Lab Sample No.(s)	8081893
AGS Reference	

Component	LOD/Units	Method	
GRO Surrogate % recovery**	%	TM245	94
GRO >C5-C12	<50 µg/l	TM245	5450 #
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3 #
Benzene	<7 µg/l	TM245	<7 #
Toluene	<4 µg/l	TM245	<4 #
Ethylbenzene	<5 µg/l	TM245	<5 #
m,p-Xylene	<8 µg/l	TM245	<8 #
o-Xylene	<3 µg/l	TM245	<3 #
Sum of detected Xylenes	<11 µg/l	TM245	<11
Sum of detected BTEX	<28 µg/l	TM245	<28
Aliphatics >C5-C6	<10 µg/l	TM245	96
Aliphatics >C6-C8	<10 µg/l	TM245	331
Aliphatics >C8-C10	<10 µg/l	TM245	1040
Aliphatics >C10-C12	<10 µg/l	TM245	1980
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	228
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	66
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	165
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	459
Aromatics >EC5-EC7	<10 µg/l	TM245	<10
Aromatics >EC7-EC8	<10 µg/l	TM245	<10
Aromatics >EC8-EC10	<10 µg/l	TM245	691
Aromatics >EC10-EC12	<10 µg/l	TM245	1320
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	551
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	35
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	586
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	6490

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	MSMW06952
Depth (m)	.
Sample Type	Water(GW/SW)
Date Sampled	10/09/2013
Sample Time	.
Date Received	11/09/2013
SDG Ref	130911-26
Lab Sample No.(s)	8081893
AGS Reference	

Component	LOD/Units	Method	
Dibromofluoromethane**	%	TM208	108
Toluene-d8**	%	TM208	98.9
4-Bromofluorobenzene**	%	TM208	101
Dichlorodifluoromethane	<1 µg/l	TM208	<1
Chloromethane	<1 µg/l	TM208	<1 #
Vinyl chloride	<1 µg/l	TM208	<1 #
Bromomethane	<1 µg/l	TM208	<1 #
Chloroethane	<1 µg/l	TM208	<1 #
Trichlorofluoromethane	<1 µg/l	TM208	<1 #
1,1-Dichloroethene	<1 µg/l	TM208	<1 #
Carbon disulphide	<1 µg/l	TM208	<1 #
Dichloromethane	<3 µg/l	TM208	<3 #
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #
1,1-Dichloroethane	<1 µg/l	TM208	<1 #
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #
2,2-Dichloropropane	<1 µg/l	TM208	<1
Bromochloromethane	<1 µg/l	TM208	<1 #
Chloroform	<1 µg/l	TM208	<1 #
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #
1,1-Dichloropropene	<1 µg/l	TM208	<1 #
Carbontetrachloride	<1 µg/l	TM208	<1 #
1,2-Dichloroethane	<1 µg/l	TM208	<1
Benzene	<1 µg/l	TM208	<1 #
Trichloroethene	<1 µg/l	TM208	<1 #
1,2-Dichloropropane	<1 µg/l	TM208	<1 #
Dibromomethane	<1 µg/l	TM208	<1 #
Bromodichloromethane	<1 µg/l	TM208	<1 #
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #
Toluene	<1 µg/l	TM208	<1 #
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	MSMW06952
Depth (m)	.
Sample Type	Water(GW/SW)
Date Sampled	10/09/2013
Sample Time	.
Date Received	11/09/2013
SDG Ref	130911-26
Lab Sample No.(s)	8081893
AGS Reference	

Component	LOD/Units	Method	
1,3-Dichloropropane	<1 µg/l	TM208	<1 #
Tetrachloroethene	<1 µg/l	TM208	<1 #
Dibromochloromethane	<1 µg/l	TM208	<1 #
1,2-Dibromoethane	<1 µg/l	TM208	<1 #
Chlorobenzene	<1 µg/l	TM208	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #
Ethylbenzene	<1 µg/l	TM208	1.53 #
m,p-Xylene	<1 µg/l	TM208	<1 #
o-Xylene	<1 µg/l	TM208	<1 #
Styrene	<1 µg/l	TM208	<1 #
Bromoform	<1 µg/l	TM208	<1 #
Isopropylbenzene	<1 µg/l	TM208	304 #
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #
Bromobenzene	<1 µg/l	TM208	<1 #
Propylbenzene	<1 µg/l	TM208	238 #
2-Chlorotoluene	<1 µg/l	TM208	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #
4-Chlorotoluene	<1 µg/l	TM208	<1 #
tert-Butylbenzene	<1 µg/l	TM208	6.35 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208	55.4 #
sec-Butylbenzene	<1 µg/l	TM208	136 #
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #
n-Butylbenzene	<1 µg/l	TM208	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208	<1
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #
Hexachlorobutadiene	<1 µg/l	TM208	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #
Naphthalene	<1 µg/l	TM208	7.11 #

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Customer Sample R			MSMW06952					
Depth (m)			.					
Sample Type			Water(GW/SW)					
Date Sampled			10/09/2013					
Sample Time			.					
Date Received			11/09/2013					
SDG Ref			130911-26					
Lab Sample No.(s)			8081893					
AGS Reference								
Component	**LOD/Units**	**Method**						
1,2,3-Trichlorobenzene	<1 µg/l	TM208	<1 #					
1,3,5-Trichlorobenzene	<1 µg/l	TM208	<1					

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit		
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM245	By GC-FID	Determination of GRO by Headspace in waters		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	8081893
Customer Sample Ref.	MSMW06952
AGS Ref.	
Depth	
Type	LIQUID
Ammoniacal Nitrogen	13-Sep-2013
BOD True Total	17-Sep-2013
COD Unfiltered	12-Sep-2013
Conductivity (at 20 deg.C)	12-Sep-2013
Dissolved Metals by ICP-MS	16-Sep-2013
EPH CWG (Aliphatic) Aqueous GC (W)	16-Sep-2013
EPH CWG (Aromatic) Aqueous GC (W)	16-Sep-2013
GRO by GC-FID (W)	12-Sep-2013
Mercury Dissolved	13-Sep-2013
Nitrite by Kone (w)	13-Sep-2013
pH Value	13-Sep-2013
Phenols by HPLC (W)	17-Sep-2013
Suspended Solids	13-Sep-2013
SVOC MS (W) - Aqueous	17-Sep-2013
TPH CWG (W)	16-Sep-2013
VOC MS (W)	12-Sep-2013

SDG:	130911-26	**Location:**	Coed Darcy	**Order Number:**	CD0492
Job:	H_ATKINS_LDC-133	**Customer:**	Atkins Global Ltd	**Report Number:**	242313
Client Reference:		**Attention:**	Adam Putt	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
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Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

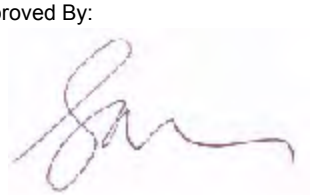
Date:	26 September 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130920-13
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	243433

We received 21 samples on Friday September 20, 2013 and 21 of these samples were scheduled for analysis which was completed on Thursday September 26, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
8129771	CAV 500		0.80	18/09/2013
8129772	CAV 501		0.80	18/09/2013
8129774	CAV 502		0.80	18/09/2013
8129775	CAV 503		0.80	18/09/2013
8129777	CAV 504		0.80	18/09/2013
8129778	CAV 505		0.80	18/09/2013
8129781	CAV 506		0.80	18/09/2013
8129782	CAV 507		0.80	18/09/2013
8129783	CAV 508		0.80	18/09/2013
8129784	CAV 509		0.40	18/09/2013
8129785	CAV 510		0.40	18/09/2013
8129786	CAV 511		0.50	18/09/2013
8129787	CAV 512		0.50	18/09/2013
8129788	CAV 513		0.50	18/09/2013
8129789	CAV 514		0.50	18/09/2013
8129790	CAV 515		0.50	18/09/2013
8129791	CAV 516		0.30	18/09/2013
8129792	CAV 517		0.30	18/09/2013
8129793	CAV 518		0.30	18/09/2013
8129794	CAV 519		0.30	18/09/2013
8129795	CAV 520		0.30	18/09/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		8129771	CAV 500		0.80	400g Tub (ALE214)
		8129772	CAV 501		0.80	400g Tub (ALE214)
		8129774	CAV 502		0.80	400g Tub (ALE214)
		8129775	CAV 503		0.80	400g Tub (ALE214)
		8129777	CAV 504		0.80	400g Tub (ALE214)
		8129778	CAV 505		0.80	400g Tub (ALE214)
		8129781	CAV 506		0.80	400g Tub (ALE214)
		8129782	CAV 507		0.80	400g Tub (ALE214)
		8129783	CAV 508		0.80	400g Tub (ALE214)
		8129784	CAV 509		0.40	400g Tub (ALE214)
		8129785	CAV 510		0.40	400g Tub (ALE214)
		8129786	CAV 511		0.50	400g Tub (ALE214)
		8129787	CAV 512		0.50	400g Tub (ALE214)
		8129788	CAV 513		0.50	400g Tub (ALE214)
		8129789	CAV 514		0.50	400g Tub (ALE214)
		8129790	CAV 515		0.50	400g Tub (ALE214)
		8129791	CAV 516		0.30	400g Tub (ALE214)
		8129792	CAV 517		0.30	400g Tub (ALE214)
		8129793	CAV 518		0.30	400g Tub (ALE214)
		8129794	CAV 519		0.30	400g Tub (ALE214)
		8129795	CAV 520		0.30	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 11				X X X X X X X X X X X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 10				X X X X X X X X X X
Metals in solid samples by OES	All	NDPs: 0 Tests: 10				X X X X X X X X X X
Sample description	All	NDPs: 0 Tests: 10				X X X X X X X X X X

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
8129786	CAV 511	0.50	Light Brown	Sand	0.1 - 2 mm	Stones	Brick
8129787	CAV 512	0.50	Light Brown	Sand	0.1 - 2 mm	Stones	Brick
8129788	CAV 513	0.50	Light Brown	Sand	0.1 - 2 mm	Stones	Brick
8129789	CAV 514	0.50	Light Brown	Sand	0.1 - 2 mm	Stones	None
8129790	CAV 515	0.50	Light Brown	Sand	0.1 - 2 mm	Stones	Brick
8129791	CAV 516	0.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
8129792	CAV 517	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
8129793	CAV 518	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
8129794	CAV 519	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
8129795	CAV 520	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV 511	CAV 512	CAV 513	CAV 514	CAV 515	CAV 516
			Depth (m)	0.50	0.50	0.50	0.50	0.50	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/09/2013	18/09/2013	18/09/2013	18/09/2013	18/09/2013	18/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	20/09/2013	20/09/2013	20/09/2013	20/09/2013	20/09/2013	20/09/2013
			SDG Ref	130920-13	130920-13	130920-13	130920-13	130920-13	130920-13
			Lab Sample No.(s)	8129786	8129787	8129788	8129789	8129790	8129791
			AGS Reference						
Lead	<0.7 mg/kg	TM181		48.3 M	41 M	40.5 M	38.2 M	82.6 M	553 M

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV 517	CAV 518	CAV 519	CAV 520		
			Depth (m)	0.30	0.30	0.30	0.30		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	18/09/2013	18/09/2013	18/09/2013	18/09/2013		
			Sample Time	.	.	.	.		
			Date Received	20/09/2013	20/09/2013	20/09/2013	20/09/2013		
			SDG Ref	130920-13	130920-13	130920-13	130920-13		
			Lab Sample No.(s)	8129792	8129793	8129794	8129795		
			AGS Reference						
Lead	<0.7 mg/kg	TM181		313 M	171 M	177 M	1520 M		

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 500 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129771 TM048	25/09/13	Martin Cotterell	Loose fibres	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 501 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129772 TM048	25/09/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 502 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129774 TM048	25/09/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 503 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129775 TM048	25/09/13	Paul Poynton	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 504 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129777 TM048	25/09/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 505 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129778 TM048	25/09/13	Martin Cotterell	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 506 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129781 TM048	25/09/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 507 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129782 TM048	25/09/13	Paul Poynton	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 508 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129783 TM048	25/09/13	Martin Cotterell	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 509 0.40 SOLID 18/09/2013 00:00:00 130920-13 8129784 TM048	25/09/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 510 0.40 SOLID 18/09/2013 00:00:00 130920-13 8129785 TM048	25/09/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 500 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129771 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 502 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129774 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 503 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129775 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 504 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129777 TM 304	None (#)	Fibres found during gravimetric analysis but too few/small to accurately weigh.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 505 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129778 TM 304	None (#)	Non-asbestos fibres found (fine fibre glass).	0.0021 (#)	<0.001 (#)	0.0022 (#)

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 506 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129781 TM 304	None (#)	Non-asbestos fibres found (fibre glass)	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 507 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129782 TM 304	None (#)	Fibres found during gravimetric analysis but too few/small to accurately weigh.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 508 0.80 SOLID 18/09/2013 00:00:00 130920-13 8129783 TM 304	None (#)	Fibres found during gravimetric analysis but too few/small to accurately weigh.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 509 0.40 SOLID 18/09/2013 00:00:00 130920-13 8129784 TM 304	None (#)	Fibres found during gravimetric analysis but too few/small to accurately weigh.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAV 510 0.40 SOLID 18/09/2013 00:00:00 130920-13 8129785 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	8129771	8129772	8129774	8129775	8129777	8129778	8129781	8129782	8129783	8129784
Customer Sample Ref.	CAV 500	CAV 501	CAV 502	CAV 503	CAV 504	CAV 505	CAV 506	CAV 507	CAV 508	CAV 509
AGS Ref.										
Depth	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.40
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013
Asbestos Quantification - Full	26-Sep-2013		25-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013

Lab Sample No(s)	8129785	8129786	8129787	8129788	8129789	8129790	8129791	8129792	8129793	8129794
Customer Sample Ref.	CAV 510	CAV 511	CAV 512	CAV 513	CAV 514	CAV 515	CAV 516	CAV 517	CAV 518	CAV 519
AGS Ref.										
Depth	0.40	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Sep-2013									
Asbestos Quantification - Full	25-Sep-2013									
Metals in solid samples by OES		25-Sep-2013	26-Sep-2013	26-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	26-Sep-2013	25-Sep-2013	26-Sep-2013
Sample description		21-Sep-2013	23-Sep-2013	23-Sep-2013	21-Sep-2013	21-Sep-2013	21-Sep-2013	23-Sep-2013	21-Sep-2013	23-Sep-2013

Lab Sample No(s)	8129795
Customer Sample Ref.	CAV 520
AGS Ref.	
Depth	0.30
Type	SOLID
Metals in solid samples by OES	26-Sep-2013
Sample description	23-Sep-2013

SDG:	130920-13	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0497
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243433
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

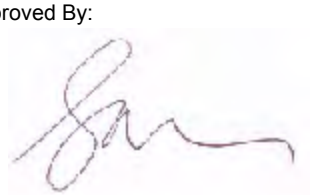
Date:	27 September 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130920-14
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	243563

We received 10 samples on Friday September 20, 2013 and 10 of these samples were scheduled for analysis which was completed on Friday September 27, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243563
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
8141274	CAV 521		0.50	18/09/2013
8141275	CAV 522		0.50	18/09/2013
8141276	CAV 523		0.30	18/09/2013
8141277	CAV 524		0.30	18/09/2013
8129911	CAV 525		0.50	18/09/2013
8129912	CAV 526		0.50	18/09/2013
8129913	CAV 527		0.50	18/09/2013
8129915	CAV 528		0.50	18/09/2013
8129916	CAV 529		0.50	18/09/2013
8129917	CAV 530		0.50	18/09/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243563
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			8141274	CAV 521		0.50	400g Tub (ALE214)
			8141275	CAV 522		0.50	400g Tub (ALE214)
			8141276	CAV 523		0.30	400g Tub (ALE214)
			8141277	CAV 524		0.30	400g Tub (ALE214)
			8129911	CAV 525		0.50	400g Tub (ALE214)
			8129912	CAV 526		0.50	400g Tub (ALE214)
			8129913	CAV 527		0.50	400g Tub (ALE214)
			8129915	CAV 528		0.50	400g Tub (ALE214)
			8129916	CAV 529		0.50	400g Tub (ALE214)
			8129917	CAV 530		0.50	400g Tub (ALE214)
Metals in solid samples by OES	All	NDPs: 0 Tests: 10	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 10	X	X	X	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243563
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
8141274	CAV 521	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
8141275	CAV 522	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
8141276	CAV 523	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
8141277	CAV 524	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
8129911	CAV 525	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
8129912	CAV 526	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
8129913	CAV 527	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
8129915	CAV 528	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
8129916	CAV 529	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
8129917	CAV 530	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243563
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV 521	CAV 522	CAV 523	CAV 524	CAV 525	CAV 526
			Depth (m)	0.50	0.50	0.30	0.30	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/09/2013	18/09/2013	18/09/2013	18/09/2013	18/09/2013	18/09/2013
			Sample Time	.	.	.	.	.	.
			Date Received	20/09/2013	20/09/2013	20/09/2013	20/09/2013	20/09/2013	20/09/2013
			SDG Ref	130920-14	130920-14	130920-14	130920-14	130920-14	130920-14
			Lab Sample No.(s)	8141274	8141275	8141276	8141277	8129911	8129912
			AGS Reference						
Lead	<0.7 mg/kg	TM181		261 M	150 M	91.5 M	235 M	175 M	222 M

CERTIFICATE OF ANALYSIS

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243563
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

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**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAV 527	CAV 528	CAV 529	CAV 530		
			Depth (m)	0.50	0.50	0.50	0.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	18/09/2013	18/09/2013	18/09/2013	18/09/2013		
			Sample Time	.	.	.	.		
			Date Received	20/09/2013	20/09/2013	20/09/2013	20/09/2013		
			SDG Ref	130920-14	130920-14	130920-14	130920-14		
			Lab Sample No.(s)	8129913	8129915	8129916	8129917		
			AGS Reference						
Lead	<0.7 mg/kg	TM181		162 M	195 M	170 M	136 M		

CERTIFICATE OF ANALYSIS

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243563
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Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
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TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
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Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	8141274	8141275	8141276	8141277	8129911	8129912	8129913	8129915	8129916	8129917
Customer Sample Ref.	CAV 521	CAV 522	CAV 523	CAV 524	CAV 525	CAV 526	CAV 527	CAV 528	CAV 529	CAV 530
AGS Ref.										
Depth	0.50	0.50	0.30	0.30	0.50	0.50	0.50	0.50	0.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Metals in solid samples by OES	26-Sep-2013	26-Sep-2013	26-Sep-2013	27-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013
Sample description	23-Sep-2013	23-Sep-2013	23-Sep-2013	23-Sep-2013	21-Sep-2013	21-Sep-2013	21-Sep-2013	21-Sep-2013	21-Sep-2013	21-Sep-2013

SDG:	130920-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0499
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	243563
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

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General

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2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

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8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

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16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

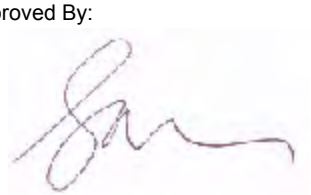
Date:	17 October 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	131009-96
Your Reference:	Commercial Area
Location:	Coed Darcy Urban Village
Report No:	246298

We received 9 samples on Wednesday October 09, 2013 and 9 of these samples were scheduled for analysis which was completed on Thursday October 17, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
8241210	CAUFV 1		0.30	08/10/2013
8241211	CAUFV 2		0.30	08/10/2013
8241212	CAUFV 3		0.30	08/10/2013
8241214	CAUFV 4		0.30	08/10/2013
8241215	CAUFV 5		0.30	08/10/2013
8241216	CAUFV 6		0.30	08/10/2013
8241217	CAUFV 7		0.30	08/10/2013
8241218	CAUFV 8		0.30	08/10/2013
8241219	CAUFV 9		0.30	08/10/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			824210	CAUFV 1		0.30	400g Tub (ALE214)
			824211	CAUFV 2		0.30	250g Amber Jar (AL
			824211	CAUFV 2		0.30	400g Tub (ALE214)
			824211	CAUFV 2		0.30	60g VOC (ALE215)
			824212	CAUFV 3		0.30	400g Tub (ALE214)
			824214	CAUFV 4		0.30	400g Tub (ALE214)
			824215	CAUFV 5		0.30	250g Amber Jar (AL
			824215	CAUFV 5		0.30	400g Tub (ALE214)
			824215	CAUFV 5		0.30	60g VOC (ALE215)
			824216	CAUFV 6		0.30	400g Tub (ALE214)
			824217	CAUFV 7		0.30	400g Tub (ALE214)
			824218	CAUFV 8		0.30	250g Amber Jar (AL
			824218	CAUFV 8		0.30	400g Tub (ALE214)
			824218	CAUFV 8		0.30	60g VOC (ALE215)
			824219	CAUFV 9		0.30	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 9	X		X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9	X		X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 3		X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 3		X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 3			X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 3		X			X
pH	All	NDPs: 0 Tests: 3			X		X
Sample description	All	NDPs: 0 Tests: 9	X	X		X	X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 3		X			X
Total Organic Carbon	All	NDPs: 0 Tests: 3		X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 3		X			X
VOC MS (S)	All	NDPs: 0 Tests: 3			X		X

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
8241210	CAUFV 1	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
8241211	CAUFV 2	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
8241212	CAUFV 3	0.30	Black	Sandy Loam	0.1 - 2 mm	Stones	None
8241214	CAUFV 4	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
8241215	CAUFV 5	0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
8241216	CAUFV 6	0.30	Black	Sandy Loam	0.1 - 2 mm	Brick	Stones
8241217	CAUFV 7	0.30	Black	Sandy Loam	0.1 - 2 mm	Brick	Stones
8241218	CAUFV 8	0.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
8241219	CAUFV 9	0.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
			Depth (m)	0.30	0.30	0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	08/10/2013	08/10/2013	08/10/2013			
			Sample Time	.	.	.			
			Date Received	09/10/2013	09/10/2013	09/10/2013			
			SDG Ref	131009-96	131009-96	131009-96			
			Lab Sample No.(s)	8241211	8241215	8241218			
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		4.02 #	4.03 #	2 #			
pH	1 pH Units	TM133		7.88 M	8.09 M	7.94 M			
Arsenic	<0.6 mg/kg	TM181		44.7 M	27 M	4.97 M			
Cadmium	<0.02 mg/kg	TM181		0.409 M	0.289 M	0.0515 M			
Chromium	<0.9 mg/kg	TM181		15.6 M	12.8 M	7.38 M			
Copper	<1.4 mg/kg	TM181		228 M	112 M	12.8 M			
Lead	<0.7 mg/kg	TM181		293 M	83.6 M	18.7 M			
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.582 M	4.19 M			
Nickel	<0.2 mg/kg	TM181		29.3 M	18.4 M	10 M			
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #			
Vanadium	<0.2 mg/kg	TM181		17.3 #	17.8 #	7.4 #			
Zinc	<1.9 mg/kg	TM181		612 M	323 M	70.9 M			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
			Depth (m)	0.30	0.30	0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	08/10/2013	08/10/2013	08/10/2013			
			Sample Time	.	.	.			
			Date Received	09/10/2013	09/10/2013	09/10/2013			
			SDG Ref	131009-96	131009-96	131009-96			
			Lab Sample No.(s)	8241211	8241215	8241218			
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100			
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100			
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100			
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100			
Isophorone	<100 µg/kg	TM157		<100	<100	<100			
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100			
Carbazole	<100 µg/kg	TM157		<100	<100	<100			
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100			
Azobenzene	<100 µg/kg	TM157		<100	<100	<100			
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100			
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100			
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100			
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100			
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100			
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100			
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100			
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100			
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
			Depth (m)	0.30	0.30	0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	08/10/2013	08/10/2013	08/10/2013			
			Sample Time	.	.	.			
			Date Received	09/10/2013	09/10/2013	09/10/2013			
			SDG Ref	131009-96	131009-96	131009-96			
			Lab Sample No.(s)	8241211	8241215	8241218			
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100			
2-Methylnaphthalene	<100 µg/kg	TM157		172	<100	<100			
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100			
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100			
Anthracene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(a)anthracene	<100 µg/kg	TM157		361	138	<100			
Benzo(b)fluoranthene	<100 µg/kg	TM157		449	140	<100			
Benzo(k)fluoranthene	<100 µg/kg	TM157		393	<100	<100			
Benzo(a)pyrene	<100 µg/kg	TM157		450	136	<100			
Benzo(g,h,i)perylene	<100 µg/kg	TM157		298	<100	<100			
Chrysene	<100 µg/kg	TM157		496	242	<100			
Fluoranthene	<100 µg/kg	TM157		436	158	<100			
Fluorene	<100 µg/kg	TM157		<100	<100	<100			
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		250	<100	<100			
Phenanthrene	<100 µg/kg	TM157		235	160	<100			
Pyrene	<100 µg/kg	TM157		491	285	<100			
Naphthalene	<100 µg/kg	TM157		<100	<100	<100			
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
			Depth (m)	0.30	0.30	0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	08/10/2013	08/10/2013	08/10/2013			
			Sample Time	.	.	.			
			Date Received	09/10/2013	09/10/2013	09/10/2013			
			SDG Ref	131009-96	131009-96	131009-96			
			Lab Sample No.(s)	8241211	8241215	8241218			
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		78	52	81			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		770 M	19000 M	6640 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M	<5 M			
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M			
Toluene	<2 µg/kg	TM089		3.29 M	<2 M	<2 M			
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M			
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M			
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9			
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24			
Aliphatics >C5-C6	<10 µg/kg	TM089		15.4	50.6	<10			
Aliphatics >C6-C8	<10 µg/kg	TM089		48.3	2450	719			
Aliphatics >C8-C10	<10 µg/kg	TM089		81.2	5500	2210			
Aliphatics >C10-C12	<10 µg/kg	TM089		336	4400	1340			
Aliphatics >C12-C16	<100 µg/kg	TM173		95300	161000	74100			
Aliphatics >C16-C21	<100 µg/kg	TM173		131000	244000	178000			
Aliphatics >C21-C35	<100 µg/kg	TM173		162000	550000	350000			
Aliphatics >C35-C44	<100 µg/kg	TM173		8680	96200	33700			
Total Aliphatics >C12-C44	<100 µg/kg	TM173		397000	1050000	636000			
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10			
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10			
Aromatics >EC8-EC10	<10 µg/kg	TM089		61.4	3670	1470			
Aromatics >EC10-EC12	<10 µg/kg	TM089		224	2940	892			
Aromatics >EC12-EC16	<100 µg/kg	TM173		23600	31800	15700			
Aromatics >EC16-EC21	<100 µg/kg	TM173		67600	136000	91500			
Aromatics >EC21-EC35	<100 µg/kg	TM173		172000	372000	350000			
Aromatics >EC35-EC44	<100 µg/kg	TM173		76400	112000	120000			
Aromatics >EC40-EC44	<100 µg/kg	TM173		27700	43200	41600			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		340000	652000	578000			
Total Aliphatics >C5-35	<100 µg/kg	TM173		388000	967000	607000			
Total Aromatics >C5-35	<100 µg/kg	TM173		264000	547000	460000			
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		652000	1510000	1070000			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.30	0.30	0.30			
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
tot.unfilt	Total / unfiltered sample.	Date Sampled	08/10/2013	08/10/2013	08/10/2013			
*	Subcontracted test.	Sample Time	.	.	.			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	09/10/2013	09/10/2013	09/10/2013			
		SDG Ref	131009-96	131009-96	131009-96			
(F)	Trigger breach confirmed	Lab Sample No.(s)	8241211	8241215	8241218			
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	737000	1720000	1220000			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
			Depth (m)	0.30	0.30	0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	08/10/2013	08/10/2013	08/10/2013			
			Sample Time	.	.	.			
			Date Received	09/10/2013	09/10/2013	09/10/2013			
			SDG Ref	131009-96	131009-96	131009-96			
			Lab Sample No.(s)	8241211	8241215	8241218			
			AGS Reference						
Dibromofluoromethane**	%	TM116		111	109	111			
Toluene-d8**	%	TM116		102	103	103			
4-Bromofluorobenzene**	%	TM116		101	111	105			
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M			
Chloromethane	<7 µg/kg	TM116		<140	<140	<140			
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200			
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M			
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M			
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M			
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #			
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M			
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #			
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M			
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M			
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M			
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M			
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M			
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M			
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M			
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M			
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M			
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M			
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M			
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M			
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M			
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M			
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M			
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M			
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M			
Toluene	<5 µg/kg	TM116		<100 M	<100 M	<100 M			
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<2000	<2000	<2000			
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
			Depth (m)	0.30	0.30	0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	08/10/2013	08/10/2013	08/10/2013			
			Sample Time	.	.	.			
			Date Received	09/10/2013	09/10/2013	09/10/2013			
			SDG Ref	131009-96	131009-96	131009-96			
			Lab Sample No.(s)	8241211	8241215	8241218			
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #			
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M			
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M			
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M			
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M			
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M			
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<80 M			
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #			
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M			
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M			
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M			
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M			
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #			
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M			
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M			
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<220 M			
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M			
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #			
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M			
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #			
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #			
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M			
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M			
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M			
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M			
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M			
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M			
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M			
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300			
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #			
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240			
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CAUFV 2	CAUFV 5	CAUFV 8			
			Depth (m)	0.30	0.30	0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	08/10/2013	08/10/2013	08/10/2013			
			Sample Time	.	.	.			
			Date Received	09/10/2013	09/10/2013	09/10/2013			
			SDG Ref	131009-96	131009-96	131009-96			
			Lab Sample No.(s)	8241211	8241215	8241218			
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M			

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 1 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241210 TM048	16/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 2 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241211 TM048	15/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 3 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241212 TM048	16/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 4 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241214 TM048	15/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 5 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241215 TM048	16/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 6 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241216 TM048	16/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 7 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241217 TM048	15/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 8 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241218 TM048	15/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 9 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241219 TM048	15/10/13	Tomasz Pawlikowski	Loose fibres in soil.	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 1 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241210 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 2 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241211 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	0.0011 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 3 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241212 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 4 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241214 TM 304	None (#)	N/C	0.0043 (#)	0.0012 (#)	0.0055 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 5 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241215 TM 304	None (#)	N/C	0.0016 (#)	<0.001 (#)	0.0025 (#)

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 6 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241216 TM 304	None (#)	N/C	0.0012 (#)	<0.001 (#)	0.0016 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 7 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241217 TM 304	None (#)	N/C	0.0011 (#)	<0.001 (#)	0.0018 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 8 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241218 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CAUFV 9 0.30 SOLID 08/10/2013 00:00:00 131009-96 8241219 TM 304	None (#)	N/C	0.0019 (#)	0.0011 (#)	0.003 (#)

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	8241210	8241211	8241212	8241214	8241215	8241216	8241217	8241218	8241219
Customer Sample Ref.	CAUFV 1	CAUFV 2	CAUFV 3	CAUFV 4	CAUFV 5	CAUFV 6	CAUFV 7	CAUFV 8	CAUFV 9
AGS Ref.									
Depth	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013
Asbestos Quantification - Full	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013	17-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013	16-Oct-2013
EPH CWG (Aliphatic) GC (S)		16-Oct-2013			16-Oct-2013			16-Oct-2013	
EPH CWG (Aromatic) GC (S)		16-Oct-2013			16-Oct-2013			16-Oct-2013	
GRO by GC-FID (S)		14-Oct-2013			14-Oct-2013			12-Oct-2013	
Metals in solid samples by OES		16-Oct-2013			16-Oct-2013			16-Oct-2013	
pH		15-Oct-2013			15-Oct-2013			15-Oct-2013	
Sample description	11-Oct-2013	11-Oct-2013	11-Oct-2013	11-Oct-2013	11-Oct-2013	11-Oct-2013	11-Oct-2013	11-Oct-2013	11-Oct-2013
Semi Volatile Organic Compounds		15-Oct-2013			15-Oct-2013			15-Oct-2013	
Total Organic Carbon		17-Oct-2013			17-Oct-2013			17-Oct-2013	
TPH CWG GC (S)		16-Oct-2013			16-Oct-2013			16-Oct-2013	
VOC MS (S)		15-Oct-2013			15-Oct-2013			15-Oct-2013	

SDG:	131009-96	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0513
Job:	H_ATKINS_LDC-109	**Customer:**	Atkins Global Ltd	**Report Number:**	246298
Client Reference:	Commercial Area	**Attention:**	Adam Putt	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Attention: Alex Mann

CERTIFICATE OF ANALYSIS

Date:	23 August 2010		
Customer:	H_ATKINS_LDC-64		
Sample Delivery Group (SDG):	100816-40	**Report No.:**	94431
Your Reference:	Crush, Concrete, 36 and CBL		
Location:	Coed Darcy Urban Village		

We received 10 samples on Saturday August 14, 2010 and 10 of these samples were scheduled for analysis which was completed on Monday August 23, 2010. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:



Iain Swinton

Operations Director - Land UK & Ireland

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

UKAS TESTING
1291

GROUP

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
1955881	36" SEWER			13/08/2010
1956058	CRUSH 21			10/08/2010
1956086	CRUSH 22			10/08/2010
1956111	CRUSH 23			10/08/2010
1955916	CST 84			11/08/2010
1955953	CST 85			11/08/2010
1955975	CST 86			11/08/2010
1956000	CST 87			11/08/2010
1956030	CST 88			11/08/2010
1955893	NSR INFLOW			13/08/2010

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

LIQUID

Results Legend

X Test

N No Determination Possible

		Lab Sample No(s)	1955881			1955893			Total
		Customer Sample Ref.	36" SEWER			NSR INFLOW			
		AGS Ref.							
		Depth (m)							
		Container	1l green glass bottle	1lplastic	Vial	1l green glass bottle	1lplastic	Vial	
Dissolved Metals by ICP-MS	All			X			X		0 2
EPH CWG (Aliphatic) Aqueous GC (W)	All		X			X			0 2
EPH CWG (Aromatic) Aqueous GC (W)	All		X			X			0 2
GRO by GC-FID (W)	All				X			X	0 2
pH Value	All			X			X		0 2
SVOC MS (W) - Aqueous	All		X			X			0 2
Total Dissolved Solids	All			X			X		0 2
TPH CWG (W)	All		X			X			0 2
VOC MS (W)	All				X			X	0 2

Validated

ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

SOLID

Results Legend

X Test

N No Determination Possible

		Lab Sample No(s)	1955916			1955953			1955975			1956000			1956030			1956058			1956086			1956111			Total
		Customer Sample Ref.	CST 84			CST 85			CST 86			CST 87			CST 88			CRUSH 21			CRUSH 22			CRUSH 23			
		AGS Ref.																									
		Depth (m)																									
		Container	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	60g VOC	
Asbestos Containing Material Screen	All			X			X			X			X			X			X			X			X		0 8
EPH CWG (Aliphatic) GC (S)	All		X			X			X			X			X			X			X			X			0 8
EPH CWG (Aromatic) GC (S)	All		X			X			X			X			X			X			X			X			0 8
GRO by GC-FID (S)	All				X			X			X			X			X			X			X			X	0 8
Metals by iCap-OES (Soil)	Arsenic		X			X			X			X			X			X			X			X			0 8
	Cadmium		X			X			X			X			X			X			X			X			0 8
	Chromium		X			X			X			X			X			X			X			X			0 8
	Copper		X			X			X			X			X			X			X			X			0 8
	Lead		X			X			X			X			X			X			X			X			0 8
	Mercury		X			X			X			X			X			X			X			X			0 8
	Nickel		X			X			X			X			X			X			X			X			0 8
	Selenium		X			X			X			X			X			X			X			X			0 8
	Vanadium		X			X			X			X			X			X			X			X			0 8
	Zinc		X			X			X			X			X			X			X			X			0 8
PAH by GCMS	All		X			X			X			X			X			X			X			X			0 8
pH	All			X			X			X			X			X			X			X			X		0 8
Sample description	All		X			X			X			X			X			X			X			X			0 8
TPH CWG GC (S)	All		X			X			X			X			X			X			X			X			0 8

Validated

ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

Sample Descriptions

Grain Sizes:
<0.063mm very fine,
0.063mm - 0.1mm fine,
0.1mm - 2mm medium,
2mm - 10mm coarse,
>10mm very coarse

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions
1955916	CST 84		Beige	Ballast	2 - 10 mm	Hardcore/Rubble
1955953	CST 85		Dark Brown	Silt	0.063 - 0.1 mm	Stones
1955975	CST 86		Dark Brown	Silt	0.063 - 0.1 mm	Stones
1956000	CST 87		Dark Brown	Ballast	0.1 - 2 mm	Hardcore/Rubble
1956030	CST 88		Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones
1956058	CRUSH 21		Dark Brown	Silt	0.063 - 0.1 mm	Stones
1956086	CRUSH 22		Light Brown	Sandy Clay	0.1 - 2 mm	Stones
1956111	CRUSH 23		Light Brown	Sandy Clay	0.1 - 2 mm	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Inclusions 2
Stones
N/A
N/A
Stones
N/A
N/A
N/A
N/A

Validated

ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

Test Completion dates

SDG reference: 100816-40

Lab Sample No(s)	1955881	1955893	1955916	1955953	1955975	1956000	1956030	1956058	1956086	1956111
Customer Sample Ref.	36" SEWER	NSR INFLOW	CST 84	CST 85	CST 86	CST 87	CST 88	CRUSH 21	CRUSH 22	CRUSH 23
Depth										
Type	LIQUID	LIQUID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Containing Material Screen			16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010
Dissolved Metals by ICP-MS	17/08/2010	17/08/2010								
EPH CWG (Aliphatic) Aqueous GC (W)	19/08/2010	19/08/2010								
EPH CWG (Aliphatic) GC (S)			18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010
EPH CWG (Aromatic) Aqueous GC (W)	19/08/2010	19/08/2010								
EPH CWG (Aromatic) GC (S)			18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010
GRO by GC-FID (S)			20/08/2010	20/08/2010	20/08/2010	20/08/2010	23/08/2010	21/08/2010	21/08/2010	21/08/2010
GRO by GC-FID (W)	20/08/2010	21/08/2010								
Metals by iCap-OES (Soil)			18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010	18/08/2010
PAH by GCMS			17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010
pH			17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010	17/08/2010
pH Value	17/08/2010	17/08/2010								
Sample description			16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010	16/08/2010
SVOC MS (W) - Aqueous	18/08/2010	18/08/2010								
Total Dissolved Solids	18/08/2010	18/08/2010								
TPH CWG (W)	20/08/2010	21/08/2010								
TPH CWG GC (S)			20/08/2010	20/08/2010	20/08/2010	20/08/2010	23/08/2010	21/08/2010	21/08/2010	21/08/2010
VOC MS (W)	19/08/2010	19/08/2010								

Validated

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	36" SEWER	NSR INFLOW
			Depth (m)		
			Sample Type	Water(GW/SW)	Water(GW/SW)
			Date Sampled	13/08/2010	13/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1955881	1955893
			AGS Reference		
Dissolved solids, Total (meter)	<5 mg/l	TM123		272 #	568 #
Arsenic (diss.filt)	<0.12 µg/l	TM152		0.855 #	2.64 #
Boron (diss.filt)	<9.4 µg/l	TM152		86.1 #	191 #
Cadmium (diss.filt)	<0.1 µg/l	TM152		<0.1 #	<0.1 #
Chromium (diss.filt)	<0.22 µg/l	TM152		5.29 #	9.86 #
Copper (diss.filt)	<0.85 µg/l	TM152		1.46 #	3.57 #
Lead (diss.filt)	<0.02 µg/l	TM152		0.037 #	0.18 #
Nickel (diss.filt)	<0.15 µg/l	TM152		15.7 #	20.7 #
Selenium (diss.filt)	<0.39 µg/l	TM152		<0.39 #	1.3 #
Vanadium (diss.filt)	<0.24 µg/l	TM152		1.57 #	6.83 #
Zinc (diss.filt)	<0.41 µg/l	TM152		2.02 #	5.56 #
pH	<1 pH Units	TM256		8.27 #	8.26 #

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	36" SEWER	NSR INFLOW
			Depth (m)		
			Sample Type	Water(GW/SW)	Water(GW/SW)
			Date Sampled	13/08/2010	13/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1955881	1955893
			AGS Reference		
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<1	<1
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<1	<1
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<1	<1
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<1	<1
2-Chlorophenol (aq)	<1 µg/l	TM176		<1	<1
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<1	<1
2-Methylphenol (aq)	<1 µg/l	TM176		<1	<1
2-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1
2-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1
3-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<1	<1
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<1	<1
4-Chloroaniline (aq)	<1 µg/l	TM176		<1	<1
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<1	<1
4-Methylphenol (aq)	<1 µg/l	TM176		<1	<1
4-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1
4-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1
Azobenzene (aq)	<1 µg/l	TM176		<1	<1
Acenaphthylene (aq)	<1 µg/l	TM176		<1	<1
Acenaphthene (aq)	<1 µg/l	TM176		<1	<1
Anthracene (aq)	<1 µg/l	TM176		<1	<1
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<1	<1
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<1	<1
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<2	<2
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1	<1
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<1	<1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<1	<1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<1	<1
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<1	<1
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<1	<1
Carbazole (aq)	<1 µg/l	TM176		<1	<1
Chrysene (aq)	<1 µg/l	TM176		<1	<1

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	36" SEWER	NSR INFLOW
			Depth (m)		
			Sample Type	Water(GW/SW)	Water(GW/SW)
			Date Sampled	13/08/2010	13/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1955881	1955893
			AGS Reference		
Dibenzofuran (aq)	<1 µg/l	TM176		<1	<1
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1	<1
Diethyl phthalate (aq)	<1 µg/l	TM176		<1	<1
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<1	<1
Dimethyl phthalate (aq)	<1 µg/l	TM176		<1	<1
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<5	<5
Fluoranthene (aq)	<1 µg/l	TM176		<1	<1
Fluorene (aq)	<1 µg/l	TM176		<1	<1
Hexachlorobenzene (aq)	<1 µg/l	TM176		<1	<1
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<1	<1
Pentachlorophenol (aq)	<1 µg/l	TM176		<1	<1
Phenol (aq)	<1 µg/l	TM176		<1	<1
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<1	<1
Hexachloroethane (aq)	<1 µg/l	TM176		<1	<1
Nitrobenzene (aq)	<1 µg/l	TM176		<1	<1
Naphthalene (aq)	<1 µg/l	TM176		<1	<1
Isophorone (aq)	<1 µg/l	TM176		<1	<1
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<1	<1
Phenanthrene (aq)	<1 µg/l	TM176		<1	<1
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<1	<1
Pyrene (aq)	<1 µg/l	TM176		<1	<1

Validated

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

TPH CWG (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	36" SEWER	NSR INFLOW
			Depth (m)		
			Sample Type	Water(GW/SW)	Water(GW/SW)
			Date Sampled	13/08/2010	13/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1955881	1955893
			AGS Reference		
Total Aliphatics >C5-C35 (aq)	<10 µg/l	TM174		<10	624
Total Aromatics >C6-C35 (aq)	<10 µg/l	TM174		<10	376
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174		<10	1000
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174		<10	41
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174		<10	10
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174		<10	125
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174		<10	47
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174		<10	458
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174		<10	319
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174		<10	624
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174		<10	376
Total Aliphatics & Aromatics >C12-C35 (Aqueous)	<10 µg/l	TM174		<10	1000
GRO Surrogate % recovery**	%	TM245		82	55
Benzene	<7 µg/l	TM245		<7 #	<7 #
Toluene	<4 µg/l	TM245		<4 #	<4 #
Ethylbenzene	<5 µg/l	TM245		<5 #	<5 #
m,p-Xylene	<8 µg/l	TM245		<8 #	<8 #
o-Xylene	<3 µg/l	TM245		<3 #	<3 #
m,p,o-Xylene	<10 µg/l	TM245		<10 #	<10 #
BTEX, Total	<10 µg/l	TM245		<10 #	<10 #
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245		<3 #	<3 #
GRO >C5-C12	<50 µg/l	TM245		<50 #	<50 #
Aliphatics >C5-C6	<10 µg/l	TM245		<10	<10
Aliphatics >C6-C8	<10 µg/l	TM245		<10	<10
Aliphatics >C8-C10	<10 µg/l	TM245		<10	<10
Aliphatics >C10-C12	<10 µg/l	TM245		<10	<10
Total Aliphatics >C5-C12	<10 µg/l	TM245		<10	<10
Aromatics >C6-C7	<10 µg/l	TM245		<10	<10
Aromatics >C7-C8	<10 µg/l	TM245		<10	<10
Aromatics >EC8-EC10	<10 µg/l	TM245		<10	<10
Aromatics >EC10-EC12	<10 µg/l	TM245		<10	<10
Total Aromatics >C6-C12	<10 µg/l	TM245		<10	<10

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	36" SEWER	NSR INFLOW
			Depth (m)		
			Sample Type	Water(GW/SW)	Water(GW/SW)
			Date Sampled	13/08/2010	13/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1955881	1955893
			AGS Reference		
Dibromofluoromethane**	%	TM208		104	105
Toluene-d8**	%	TM208		99.2	99
4-Bromofluorobenzene**	%	TM208		101	98
Dichlorodifluoromethane	<7 µg/l	TM208		<7 #	<7 #
Chloromethane	<9 µg/l	TM208		<9 #	<9 #
Vinyl chloride	<1.2 µg/l	TM208		<1.2 #	<1.2 #
Bromomethane	<2 µg/l	TM208		<2 #	<2 #
Chloroethane	<2.5 µg/l	TM208		<2.5 #	<2.5 #
Trichlorofluoromethane	<1.3 µg/l	TM208		<1.3 #	<1.3 #
1,1-Dichloroethene	<1.2 µg/l	TM208		<1.2 #	<1.2 #
Carbon disulphide	<1.3 µg/l	TM208		<1.3 #	<1.3 #
Dichloromethane	<3.7 µg/l	TM208		<3.7 #	<3.7 #
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208		<1.6 #	<1.6 #
trans-1,2-Dichloroethene	<1.9 µg/l	TM208		<1.9 #	<1.9 #
1,1-Dichloroethane	<1.2 µg/l	TM208		<1.2 #	<1.2 #
cis-1,2-Dichloroethene	<2.3 µg/l	TM208		<2.3 #	<2.3 #
2,2-Dichloropropane	<3.8 µg/l	TM208		<3.8 #	<3.8 #
Bromochloromethane	<1.9 µg/l	TM208		<1.9 #	<1.9 #
Chloroform	<1.8 µg/l	TM208		<1.8 #	<1.8 #
1,1,1-Trichloroethane	<1.3 µg/l	TM208		<1.3 #	<1.3 #
1,1-Dichloropropene	<1.3 µg/l	TM208		<1.3 #	<1.3 #
Carbontetrachloride	<1.4 µg/l	TM208		<1.4 #	<1.4 #
1,2-Dichloroethane	<3.3 µg/l	TM208		<3.3	65.9
Benzene	<1.3 µg/l	TM208		<1.3 #	<1.3 #
Trichloroethene	<2.5 µg/l	TM208		<2.5 #	<2.5 #
1,2-Dichloropropane	<3 µg/l	TM208		<3 #	<3 #
Dibromomethane	<2.7 µg/l	TM208		<2.7 #	<2.7 #
Bromodichloromethane	<0.9 µg/l	TM208		<0.9 #	<0.9 #
cis-1,3-Dichloropropene	<1.9 µg/l	TM208		<1.9 #	<1.9 #
Toluene	<1.4 µg/l	TM208		<1.4 #	<1.4 #
trans-1,3-Dichloropropene	<3.5 µg/l	TM208		<3.5 #	<3.5 #
1,1,2-Trichloroethane	<2.2 µg/l	TM208		<2.2 #	<2.2 #
1,3-Dichloropropane	<2.2 µg/l	TM208		<2.2 #	<2.2 #
Tetrachloroethene	<1.5 µg/l	TM208		<1.5 #	<1.5 #
Dibromochloromethane	<1.7 µg/l	TM208		<1.7 #	<1.7 #
1,2-Dibromoethane	<2.3 µg/l	TM208		<2.3 #	<2.3 #
Chlorobenzene	<3.5 µg/l	TM208		<3.5 #	<3.5 #
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208		<1.3 #	<1.3 #
Ethylbenzene	<2.5 µg/l	TM208		<2.5 #	<2.5 #

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	36" SEWER	NSR INFLOW
			Depth (m)		
			Sample Type	Water(GW/SW)	Water(GW/SW)
			Date Sampled	13/08/2010	13/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1955881	1955893
			AGS Reference		
m,p-Xylene	<2.5 µg/l	TM208		<2.5 #	<2.5 #
o-Xylene	<1.7 µg/l	TM208		<1.7 #	<1.7 #
Styrene	<1.2 µg/l	TM208		<1.2 #	<1.2 #
Bromoform	<3 µg/l	TM208		<3 #	<3 #
Isopropylbenzene	<1.4 µg/l	TM208		<1.4 #	<1.4 #
1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208		<5.2	<5.2
1,2,3-Trichloropropane	<7.8 µg/l	TM208		<7.8 #	<7.8 #
Bromobenzene	<2 µg/l	TM208		<2 #	<2 #
Propylbenzene	<2.6 µg/l	TM208		<2.6 #	<2.6 #
2-Chlorotoluene	<1.9 µg/l	TM208		<1.9 #	<1.9 #
1,3,5-Trimethylbenzene	<1.8 µg/l	TM208		<1.8 #	<1.8 #
4-Chlorotoluene	<1.9 µg/l	TM208		<1.9 #	<1.9 #
tert-Butylbenzene	<2 µg/l	TM208		<2 #	<2 #
1,2,4-Trimethylbenzene	<1.7 µg/l	TM208		<1.7 #	<1.7 #
sec-Butylbenzene	<1.7 µg/l	TM208		<1.7 #	<1.7 #
4-iso-Propyltoluene	<2.6 µg/l	TM208		<2.6 #	<2.6 #
1,3-Dichlorobenzene	<2.2 µg/l	TM208		<2.2 #	<2.2 #
1,4-Dichlorobenzene	<2.7 µg/l	TM208		<2.7 #	<2.7 #
n-Butylbenzene	<2 µg/l	TM208		<2 #	<2 #
1,2-Dichlorobenzene	<3.7 µg/l	TM208		<3.7	<3.7
1,2-Dibromo-3-chloropropane	<9.8 µg/l	TM208		<9.8	<9.8
1,2,4-Trichlorobenzene	<2.3 µg/l	TM208		<2.3 #	<2.3 #
Hexachlorobutadiene	<2.5 µg/l	TM208		<2.5 #	<2.5 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1 #	<1 #
Naphthalene	<3.5 µg/l	TM208		<3.5 #	<3.5 #
1,2,3-Trichlorobenzene	<3.1 µg/l	TM208		<3.1 #	<3.1 #
1,3,5-Trichlorobenzene	<10 µg/l	TM208		<10	<10

Validated

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	CRUSH 21	CRUSH 22	CRUSH 23	CST 84	CST 85	CST 86
			Depth (m)						
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	10/08/2010	10/08/2010	10/08/2010	11/08/2010	11/08/2010	11/08/2010
			Date Received	14/08/2010	14/08/2010	14/08/2010	14/08/2010	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40	100816-40	100816-40	100816-40	100816-40
			Lab Sample No.(s)	1956058	1956086	1956111	1955916	1955953	1955975
			AGS Reference						
Asbestos Containing Material Screen	-	TM001		No ACM Detected	No ACM Detected	No ACM Detected	No ACM Detected	No ACM Detected	No ACM Detected
pH	1 pH Units	TM133		11.9 #	11.6 M	9.27 M	12.4 #	8.85 #	7.96 #
Arsenic	<0.6 mg/kg	TM181		14.4 #	11.7 M	9.8 M	13.8 #	24.2 #	26.8 #
Cadmium	<0.02 mg/kg	TM181		<0.02 #	<0.02 M	<0.02 M	<0.02 #	0.255 #	0.623 #
Chromium	<0.9 mg/kg	TM181		13.7 #	14.2 M	12.2 M	8.37 #	11.8 #	15.4 #
Copper	<1.4 mg/kg	TM181		88.4 #	22.7 M	33.5 M	7.22 #	613 #	77.5 #
Lead	<0.7 mg/kg	TM181		36.1 #	29 M	50.9 M	6.33 #	108 #	155 #
Mercury	<0.14 mg/kg	TM181		0.16 #	<0.14 M	0.634 M	<0.14 #	<0.14 #	<0.14 #
Nickel	<0.2 mg/kg	TM181		16.5 #	16.6 M	14.6 M	5.37 #	17.1 #	27.9 #
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.2 #	14.3 #	13.2 #	12.4 #	22.4 #	22.2 #
Zinc	<1.9 mg/kg	TM181		119 #	111 M	175 M	22.8 #	351 #	203 #

Validated

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	CRUSH 21	CRUSH 22	CRUSH 23	CST 84	CST 85	CST 86
			Depth (m)						
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	10/08/2010	10/08/2010	10/08/2010	11/08/2010	11/08/2010	11/08/2010
			Date Received	14/08/2010	14/08/2010	14/08/2010	14/08/2010	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40	100816-40	100816-40	100816-40	100816-40
			Lab Sample No.(s)	1956058	1956086	1956111	1955916	1955953	1955975
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		104	94.4	96.9	94.9	95.6	98.9
Acenaphthene-d10 % recovery**	%	TM218		100	90.8	93.4	91.8	92.4	96.8
Phenanthrene-d10 % recovery**	%	TM218		106	95	98.1	96.3	96.5	101
Chrysene-d12 % recovery**	%	TM218		98	88.5	91.2	89	89.3	95.9
Perylene-d12 % recovery**	%	TM218		107	96.7	102	94.8	95.3	105
Naphthalene	<9 µg/kg	TM218		112 #	343 M	80.5 M	20.7 #	116 #	246 #
Acenaphthylene	<12 µg/kg	TM218		14.6 #	13.3 M	28.9 M	<12 #	28.5 #	56.3 #
Acenaphthene	<8 µg/kg	TM218		61.5 #	164 M	48.7 M	<8 #	8.93 #	106 #
Fluorene	<10 µg/kg	TM218		71.5 #	222 M	50.3 M	<10 #	16.9 #	116 #
Phenanthrene	<15 µg/kg	TM218		130 #	831 M	325 M	47.6 #	167 #	1410 #
Anthracene	<16 µg/kg	TM218		68.9 #	146 M	140 M	<16 #	26.5 #	280 #
Fluoranthene	<17 µg/kg	TM218		467 #	641 M	1150 M	83.1 #	261 #	2620 #
Pyrene	<15 µg/kg	TM218		408 #	465 M	1570 M	68.6 #	224 #	2750 #
Benz(a)anthracene	<14 µg/kg	TM218		303 #	310 M	987 M	66.9 #	165 #	1770 #
Chrysene	<10 µg/kg	TM218		320 #	301 M	1100 M	71.5 #	193 #	1740 #
Benzo(b)fluoranthene	<15 µg/kg	TM218		447 #	436 M	1880 M	122 #	334 #	2950 #
Benzo(k)fluoranthene	<14 µg/kg	TM218		126 #	150 M	629 M	45.2 #	112 #	1040 #
Benzo(a)pyrene	<15 µg/kg	TM218		324 #	285 M	1090 M	69.1 #	192 #	1990 #
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		212 #	185 M	793 M	57.4 #	174 #	1300 #
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		71.9 #	65.8 M	258 M	<23 #	63.4 #	468 #
Benzo(g,h,i)perylene	<24 µg/kg	TM218		278 #	245 M	1010 M	74.9 #	233 #	1890 #
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		3410 #	4800 M	11100 M	727 #	2320 #	20700 #

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	CRUSH 21	CRUSH 22	CRUSH 23	CST 84	CST 85	CST 86
			Depth (m)						
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	10/08/2010	10/08/2010	10/08/2010	11/08/2010	11/08/2010	11/08/2010
			Date Received	14/08/2010	14/08/2010	14/08/2010	14/08/2010	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40	100816-40	100816-40	100816-40	100816-40
			Lab Sample No.(s)	1956058	1956086	1956111	1955916	1955953	1955975
			AGS Reference						
Aliphatics >C12-C16	<100 µg/kg	TM173		19100	4730	6050	349	2630	6990
Aliphatics >C16-C21	<100 µg/kg	TM173		32900	13500	67600	2470	18400	27800
Aliphatics >C16-C35	<100 µg/kg	TM173		106000	87000	274000	16900	174000	211000
Aliphatics >C21-C35	<100 µg/kg	TM173		73000	73500	206000	14400	155000	183000
Aliphatics >C35-C44	<100 µg/kg	TM173		21200	14700	92200	4190	81000	30400
Aromatics >EC12-EC16	<100 µg/kg	TM173		5620	1250	4640	<100	3400	6860
Aromatics >EC16-EC21	<100 µg/kg	TM173		11100	8510	39800	<100	11500	23800
Aromatics >EC21-EC35	<100 µg/kg	TM173		33700	41100	118000	2160	160000	232000
Aromatics >EC35-EC44	<100 µg/kg	TM173		21900	16300	65100	1980	121000	87800
Aromatics >EC40-EC44	<100 µg/kg	TM173		9870	7320	30500	558	51200	33300
Total Aliphatics >C12-C44	<100 µg/kg	TM173		146000	106000	372000	21400	257000	249000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		72300	67100	228000	4220	296000	351000
Total Aliphatics >C5-35	<100 µg/kg	TM173		125000	92300	280000	17200	176000	218000
Total Aliphatics >C5-C44	<100 µg/kg	TM173		146000	107000	372000	21400	257000	249000
Total Aromatics >C5-35	<100 µg/kg	TM173		50500	51000	163000	2240	175000	263000
Total Aromatics >C6-C44	<100 µg/kg	TM173		72400	67300	228000	4220	296000	351000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		176000	143000	443000	19500	351000	481000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		219000	174000	600000	25600	553000	599000
GRO Surrogate % recovery**	%	TM089		67	64	73	67	44	42
Benzene	<10 µg/kg	TM089		<10 #	<10 M	<10 M	<10 #	<10 #	<10 #
Toluene	<2 µg/kg	TM089		17 #	14.9 M	<2 M	<2 #	<2 #	<2 #
Ethylbenzene	<3 µg/kg	TM089		<3 #	<3 M	<3 M	<3 #	<3 #	<3 #
m,p-Xylene	<6 µg/kg	TM089		<6 #	13.9 M	<6 M	<6 #	<6 #	<6 #
o-Xylene	<3 µg/kg	TM089		<3 #	<3 M	<3 M	<3 #	<3 #	<3 #
m,p,o-Xylene	<10 µg/kg	TM089		<10 #	13.9 M	<10 M	<10 #	<10 #	<10 #
BTEX, Total	<10 µg/kg	TM089		17 #	28.8 M	<10 M	<10 #	<10 #	<10 #
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
GRO >C5-C12	<44 µg/kg	TM089		230	729	297	<44	112	<44
Aliphatics >C5-C6	<10 µg/kg	TM089		33.8	134	<10	<10	59.2	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		68.8	307	36.9	<10	52.8	<10
Aliphatics >C8-C10	<10 µg/kg	TM089		25.3	18.8	30	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089		18.7	84.7	70.2	<10	<10	<10
Total Aliphatics >C5-C12	<10 µg/kg	TM089		147	545	137	<10	112	<10
Aromatics >C6-C7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	<10 µg/kg	TM089		17	14.9	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		38	42.1	45	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089		28.1	127	105	<10	<10	<10
Total Aromatics >C6-C12	<10 µg/kg	TM089		83.1	184	150	<10	<10	<10

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	CST 87	CST 88
			Depth (m)		
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	11/08/2010	11/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1956000	1956030
			AGS Reference		
Asbestos Containing Material Screen	-	TM001		No ACM Detected	No ACM Detected
pH	1 pH Units	TM133		9.46 #	8.64 M
Arsenic	<0.6 mg/kg	TM181		9.74 #	82.8 M
Cadmium	<0.02 mg/kg	TM181		<0.02 #	0.413 M
Chromium	<0.9 mg/kg	TM181		13.6 #	10.9 M
Copper	<1.4 mg/kg	TM181		17.6 #	270 M
Lead	<0.7 mg/kg	TM181		18.7 #	209 M
Mercury	<0.14 mg/kg	TM181		<0.14 #	<0.14 M
Nickel	<0.2 mg/kg	TM181		22 #	16.1 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		13.4 #	14.9 #
Zinc	<1.9 mg/kg	TM181		59.2 #	839 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	CST 87	CST 88
			Depth (m)		
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	11/08/2010	11/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1956000	1956030
			AGS Reference		
Naphthalene-d8 % recovery**	%	TM218		94.6	104
Acenaphthene-d10 % recovery**	%	TM218		91.1	100
Phenanthrene-d10 % recovery**	%	TM218		97.1	105
Chrysene-d12 % recovery**	%	TM218		87.3	94.6
Perylene-d12 % recovery**	%	TM218		94	101
Naphthalene	<9 µg/kg	TM218		71.8 #	48.5 M
Acenaphthylene	<12 µg/kg	TM218		17.3 #	<12 M
Acenaphthene	<8 µg/kg	TM218		52.8 #	<8 M
Fluorene	<10 µg/kg	TM218		49.3 #	<10 M
Phenanthrene	<15 µg/kg	TM218		475 #	83.7 M
Anthracene	<16 µg/kg	TM218		57.2 #	<16 M
Fluoranthene	<17 µg/kg	TM218		473 #	76.6 M
Pyrene	<15 µg/kg	TM218		493 #	79.2 M
Benz(a)anthracene	<14 µg/kg	TM218		286 #	43.4 M
Chrysene	<10 µg/kg	TM218		552 #	59.2 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		387 #	63.9 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		123 #	19.4 M
Benzo(a)pyrene	<15 µg/kg	TM218		291 #	44.2 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		187 #	32 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		92.1 #	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		261 #	44.2 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		3870 #	594 M

SDG	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Reference:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94431

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	CST 87	CST 88
			Depth (m)		
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	11/08/2010	11/08/2010
			Date Received	14/08/2010	14/08/2010
			SDG Ref	100816-40	100816-40
			Lab Sample No.(s)	1956000	1956030
			AGS Reference		
Aliphatics >C12-C16	<100 µg/kg	TM173		2540	7370
Aliphatics >C16-C21	<100 µg/kg	TM173		8230	30000
Aliphatics >C16-C35	<100 µg/kg	TM173		29300	82500
Aliphatics >C21-C35	<100 µg/kg	TM173		21100	52500
Aliphatics >C35-C44	<100 µg/kg	TM173		4440	15700
Aromatics >EC12-EC16	<100 µg/kg	TM173		3040	5000
Aromatics >EC16-EC21	<100 µg/kg	TM173		6300	23500
Aromatics >EC21-EC35	<100 µg/kg	TM173		23500	86500
Aromatics >EC35-EC44	<100 µg/kg	TM173		8930	39900
Aromatics >EC40-EC44	<100 µg/kg	TM173		3440	16300
Total Aliphatics >C12-C44	<100 µg/kg	TM173		36300	106000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		41800	155000
Total Aliphatics >C5-35	<100 µg/kg	TM173		31800	90000
Total Aliphatics >C5-C44	<100 µg/kg	TM173		36300	106000
Total Aromatics >C5-35	<100 µg/kg	TM173		32800	115000
Total Aromatics >C6-C44	<100 µg/kg	TM173		41800	155000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		64700	205000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		78000	261000
GRO Surrogate % recovery**	%	TM089		103	79
Benzene	<10 µg/kg	TM089		<10 #	<10 M
Toluene	<2 µg/kg	TM089		<2 #	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 #	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 #	<6 M
o-Xylene	<3 µg/kg	TM089		<3 #	<3 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 #	<10 M
BTEX, Total	<10 µg/kg	TM089		<10 #	<10 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #
GRO >C5-C12	<44 µg/kg	TM089		<44	158
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	19.2
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	54.5
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	26
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10
Total Aliphatics >C5-C12	<10 µg/kg	TM089		<10	99.7
Aromatics >C6-C7	<10 µg/kg	TM089		<10	<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	38.9
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	11.5
Total Aromatics >C6-C12	<10 µg/kg	TM089		<10	50.5

Table of Results - Appendix

SDG Number : 100816-40 **Client :** Atkins Coed Darcy **Client Ref :** Crush, Concrete, 36 and CB

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10-7

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample [1]
PM001		Preparation of Samples for Metals Analysis	Dry
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material	Wet
TM001	In - house Method	Determination of asbestos containing material by screening on solids	
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water	
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	Wet
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS	
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID	Dry
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID	
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS	
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES	Dry
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters	
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546	Wet
TM245	By GC-FID	Determination of GRO by Headspace in waters	
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter	

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Validated

ALcontrol Laboratories Analytical Services

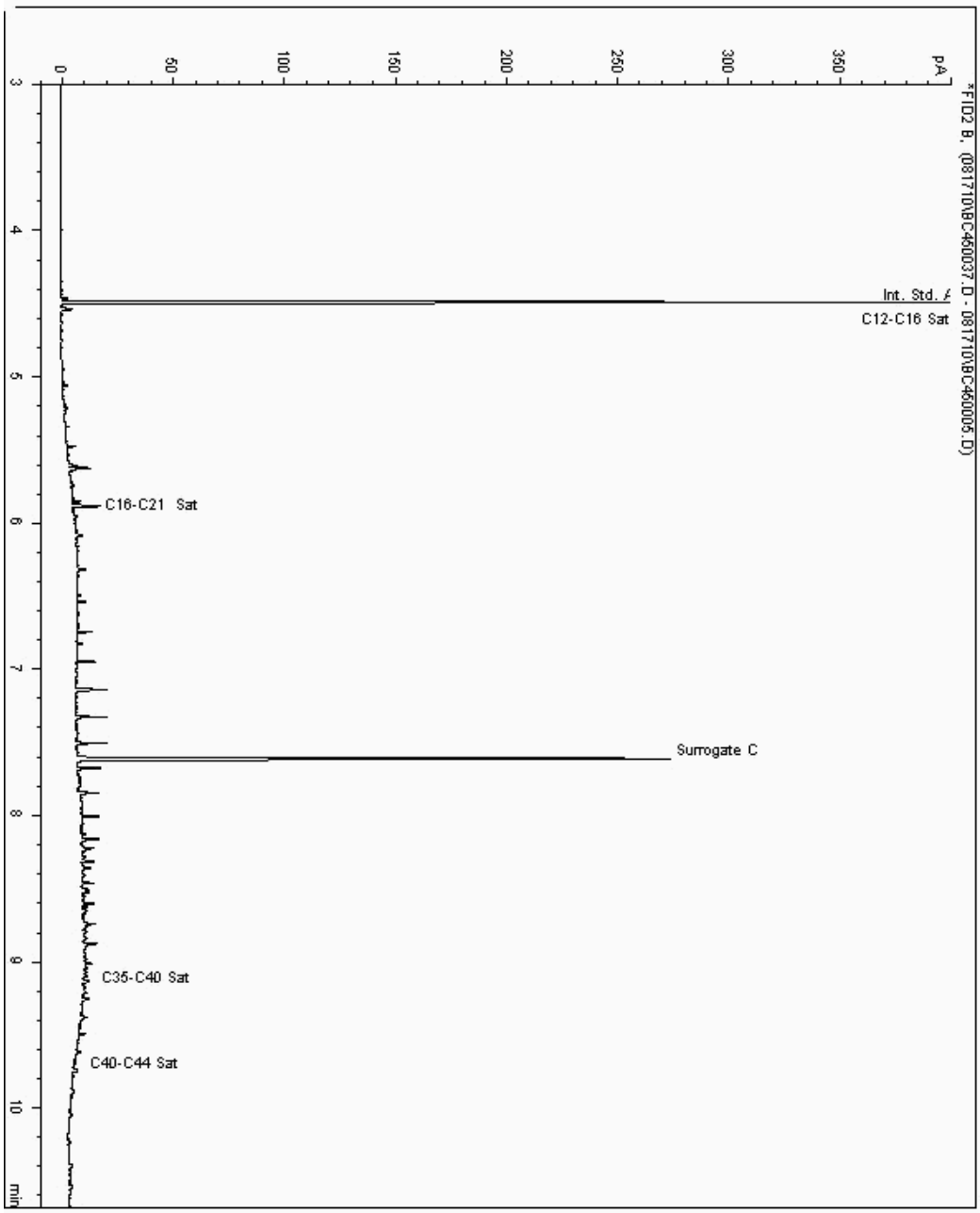
SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Chromatogram

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1960904
		Sample ID	CRUSH 23
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062578-1960904
Date Acquired : 17/08/10 23:49:54 PM
Units : ppb
Dilution:



Validated

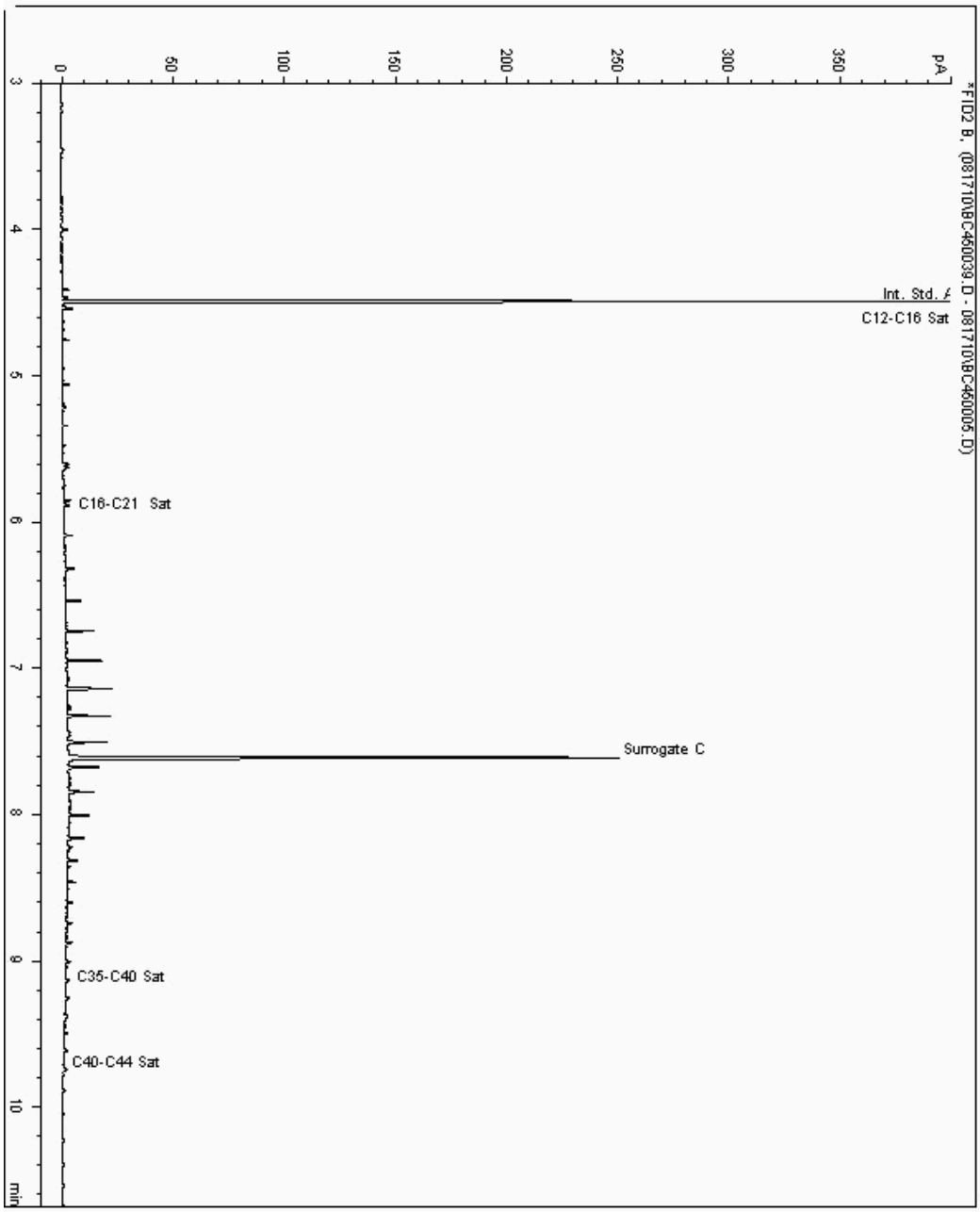
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1960918
		Sample ID	CRUSH 22
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062563-1960918
Date Acquired : 18/08/10 00:20:04 PM
Units : ppb
Dilution:



Validated

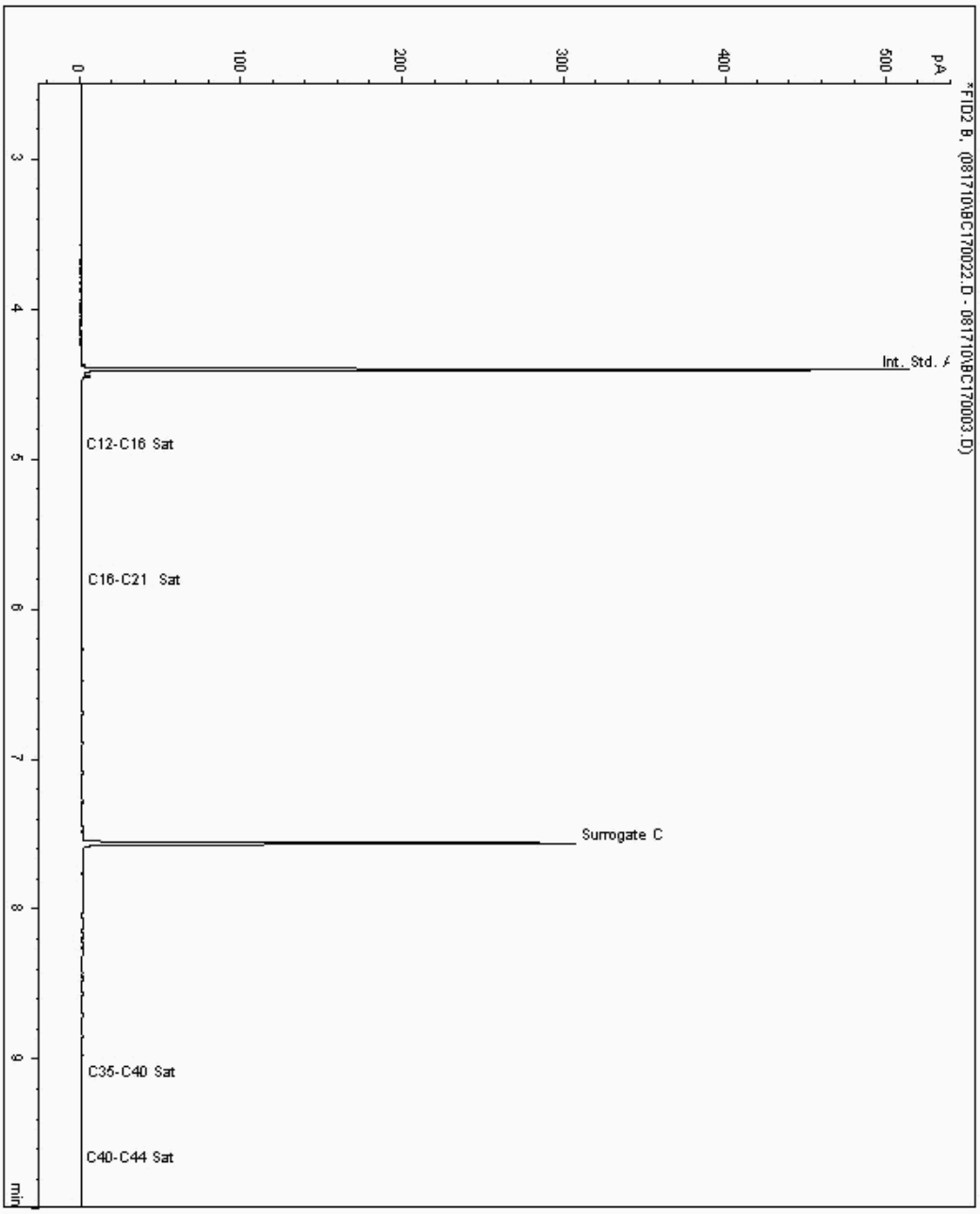
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1961747
		Sample ID	CST 84
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062424-1961747
Date Acquired : 18/08/10 02:21:04 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000



Validated

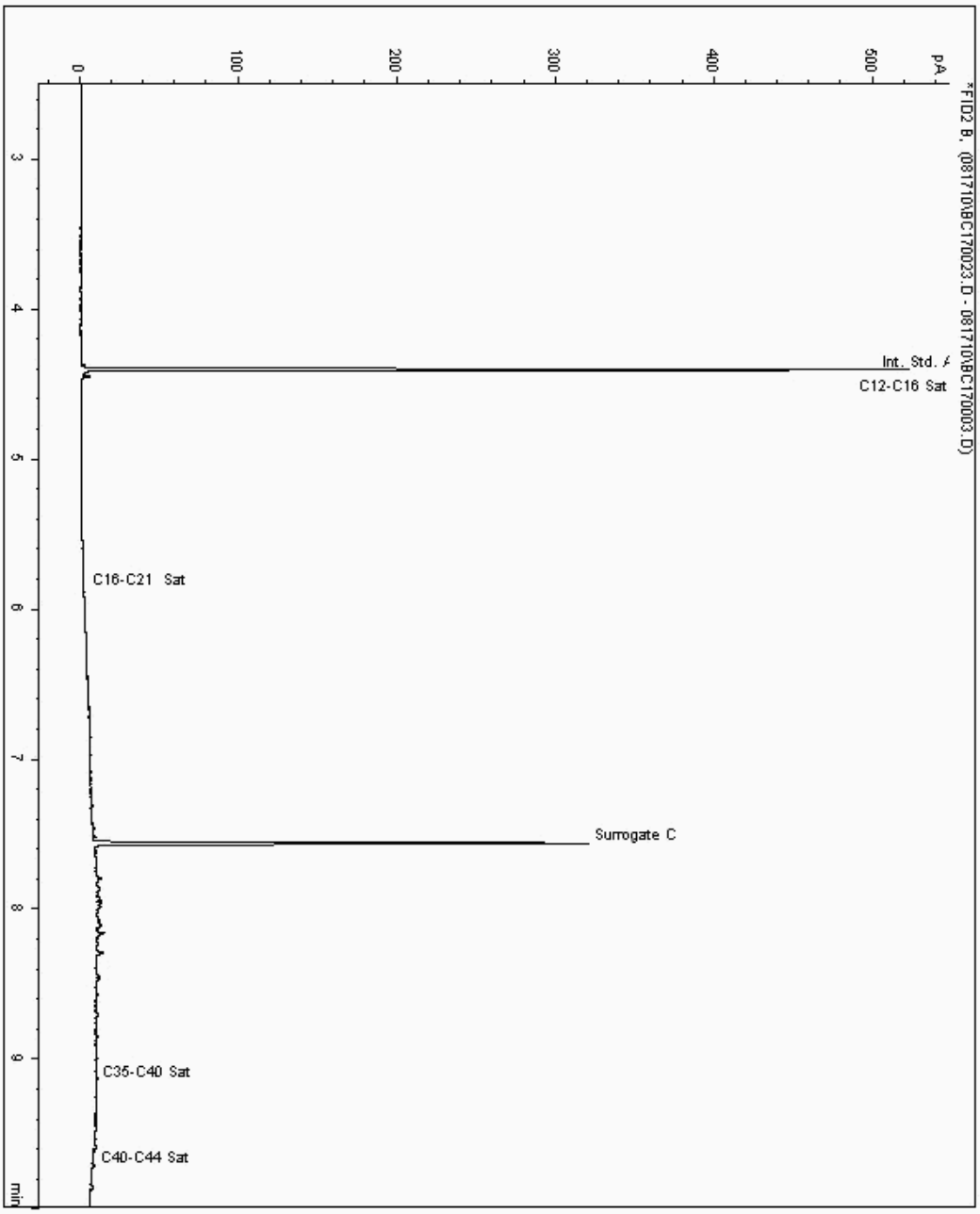
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1962002
		Sample ID	CST 85
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062457-1962002
Date Acquired : 18/08/10 02:40:35 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980



Validated

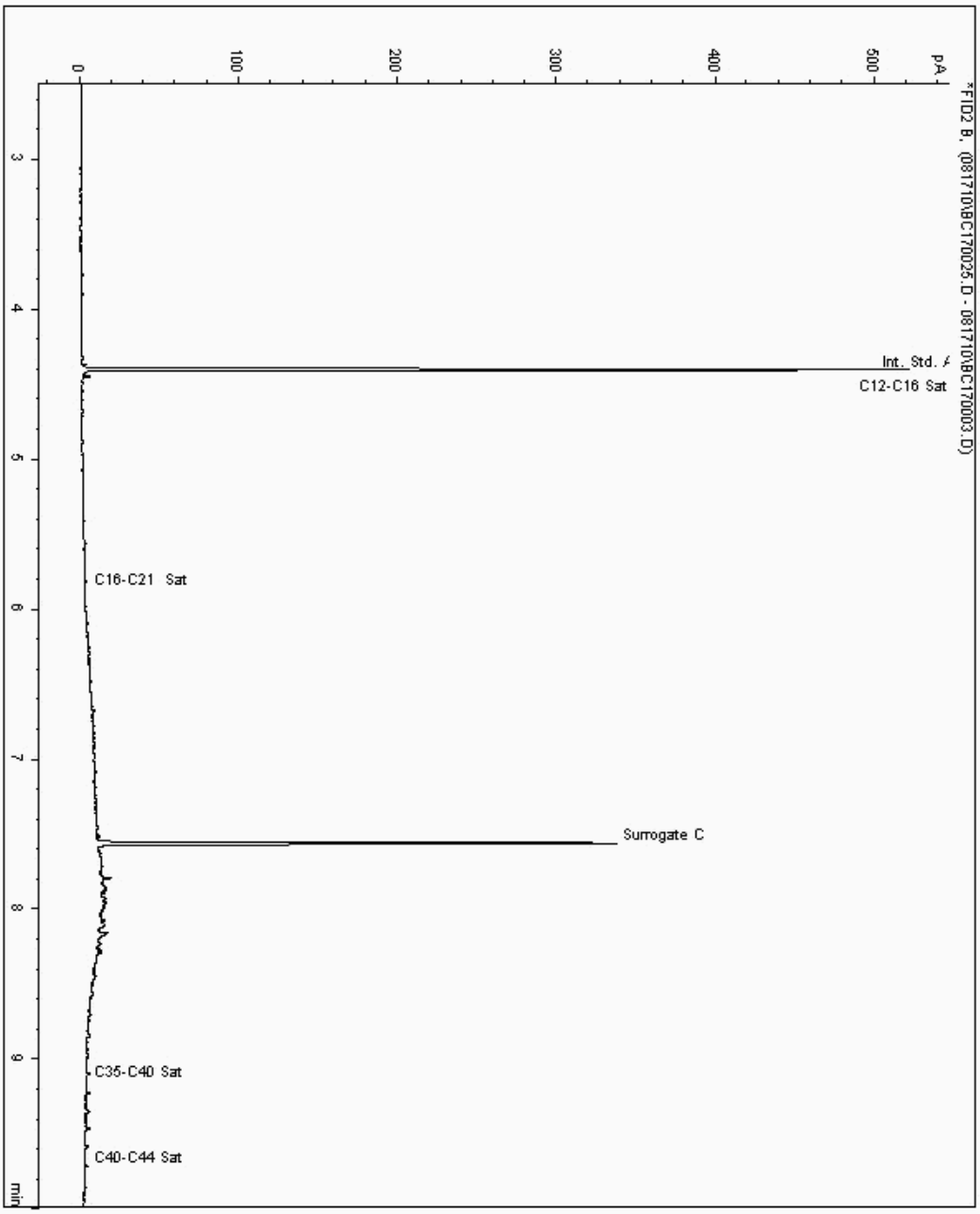
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1962013
		Sample ID	CST 86
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062483-1962013
Date Acquired : 18/08/10 03:19:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010



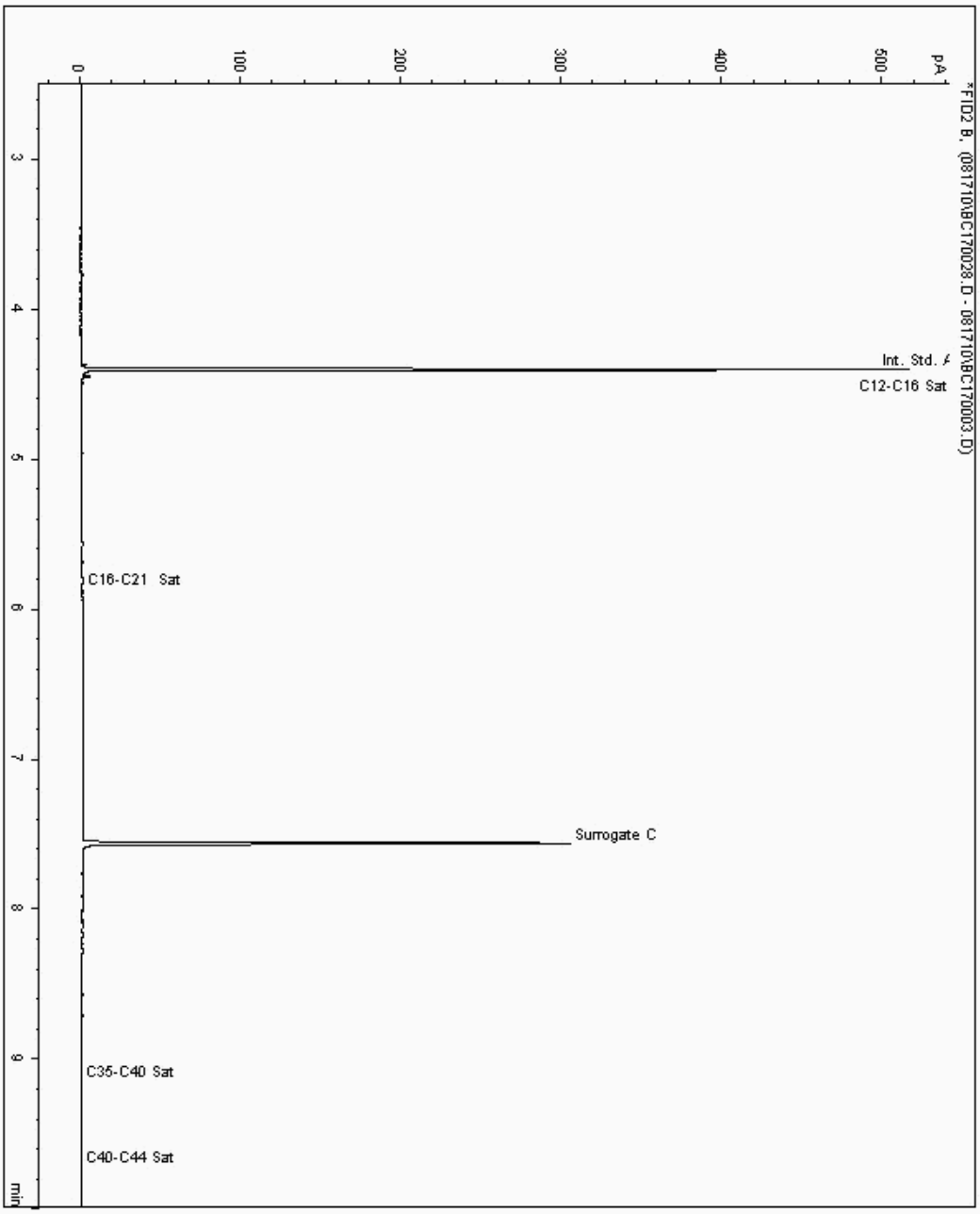
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1962456
		Sample ID	CST 87
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062505-1962456
Date Acquired : 18/08/10 04:18:17 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000



Validated

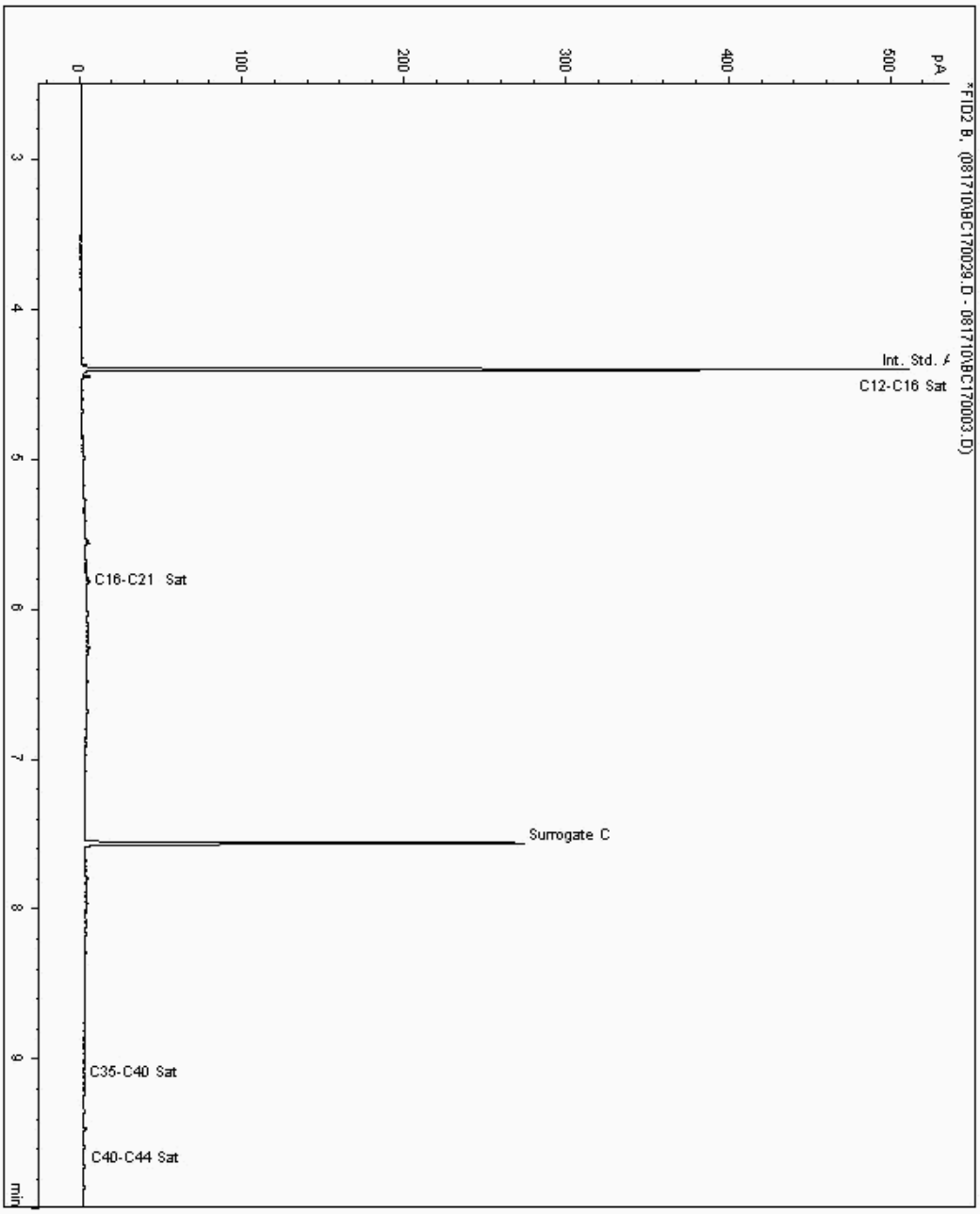
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1962478
		Sample ID	CST 88
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062520-1962478
Date Acquired : 18/08/10 04:37:44 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950



Validated

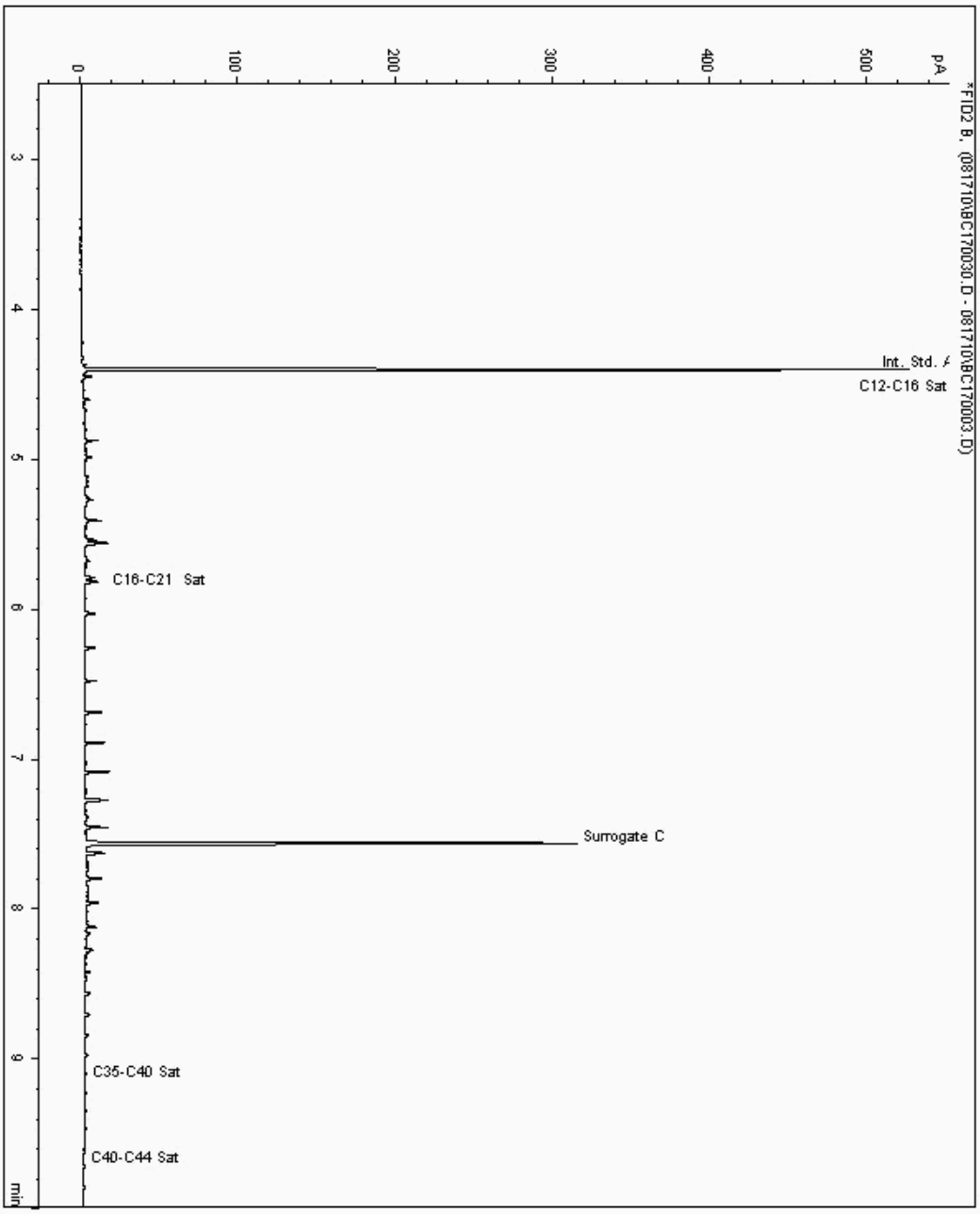
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) GC (S)	**Sample No**	1962493
		Sample ID	CRUSH 21
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062532-1962493
Date Acquired : 18/08/10 04:57:13 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000



Validated

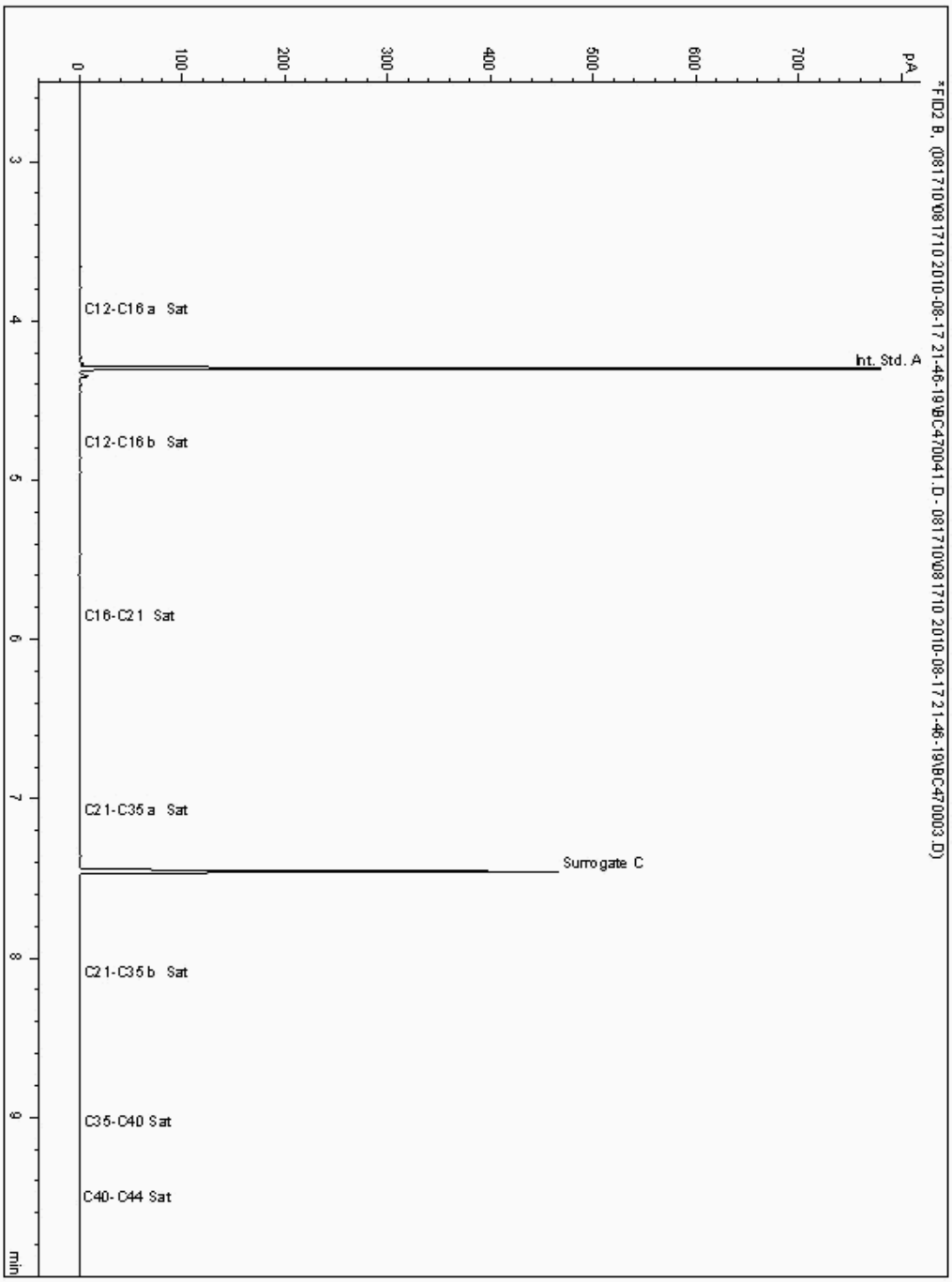
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) Aqueous GC (W)	**Sample No**	1957483
		Sample ID	36" SEWER
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062404-1957483
Date Acquired : 18/08/10 10:27:38
Units :
Dilution :
CF : 1
Multiplier : 0.008



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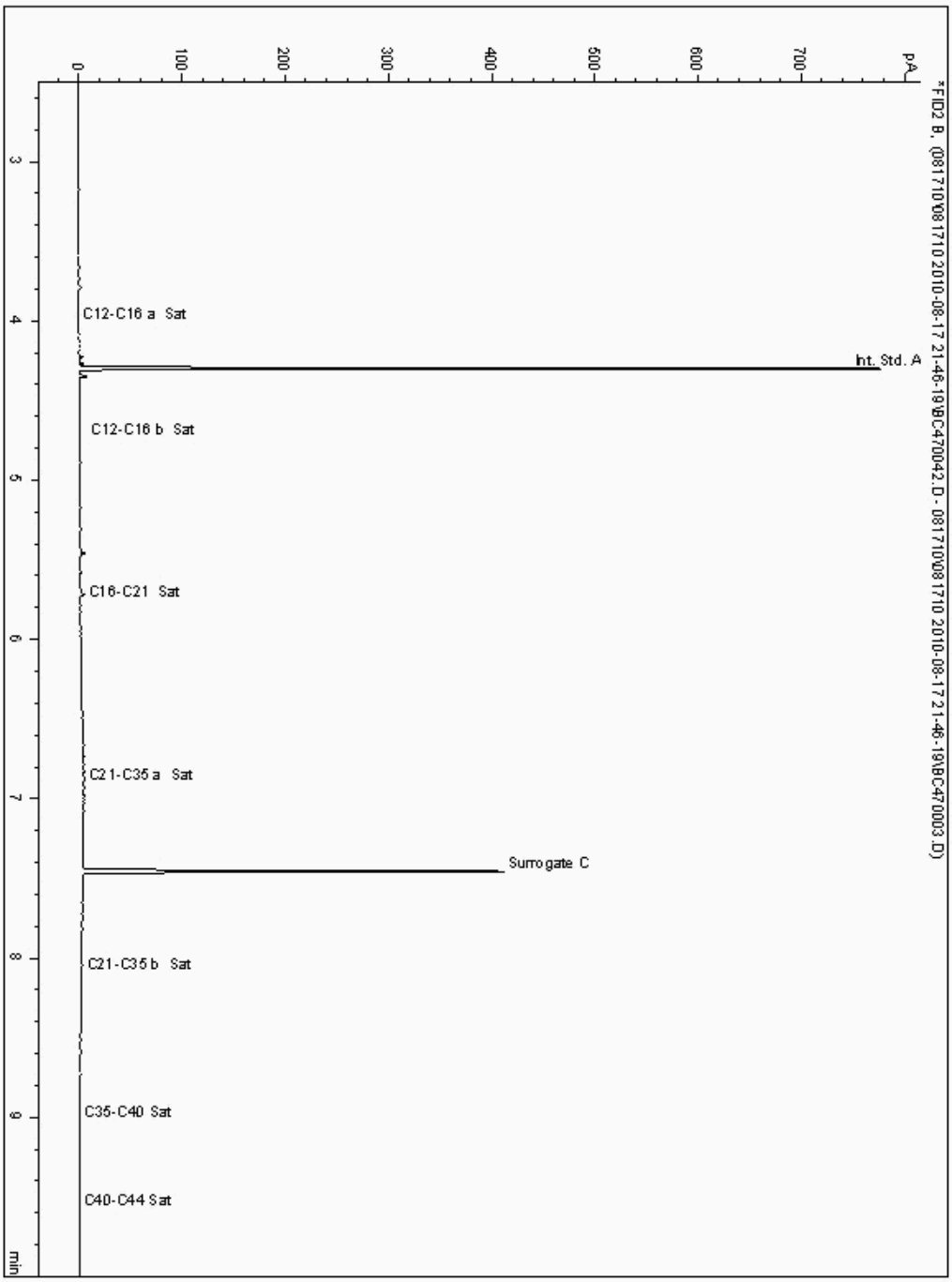
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aliphatic) Aqueous GC (W)	**Sample No**	1957505
		Sample ID	NSR INFLOW
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 2062417-1957505
Date Acquired : 18/08/10 10:46:43
Units :
Dilution :
CF : 1
Multiplier : 0.008



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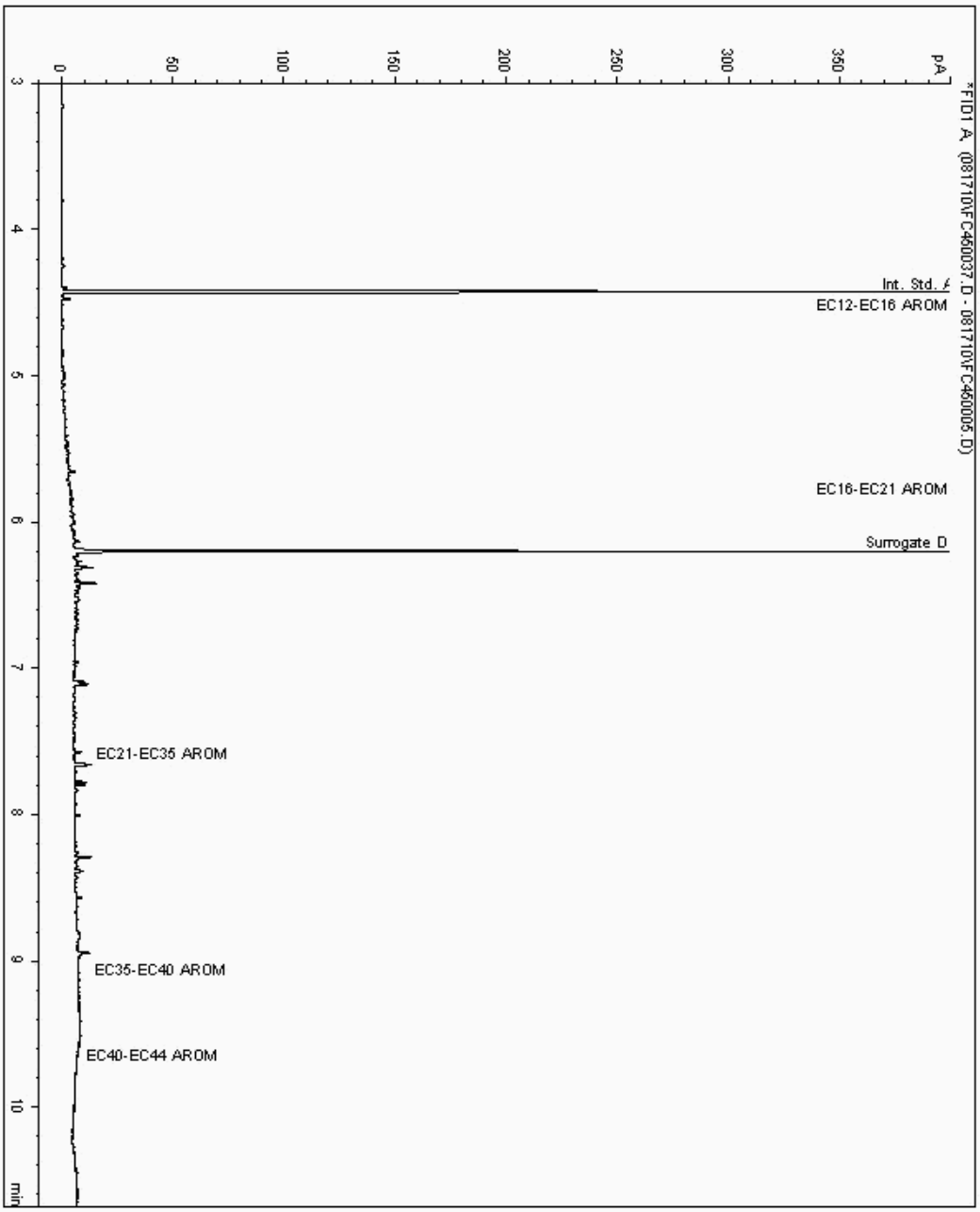
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1960904
		Sample ID	CRUSH 23
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062579-1960904
Date Acquired : 17/08/10 23:49:54 PM
Units : ppb
Dilution:



Validated

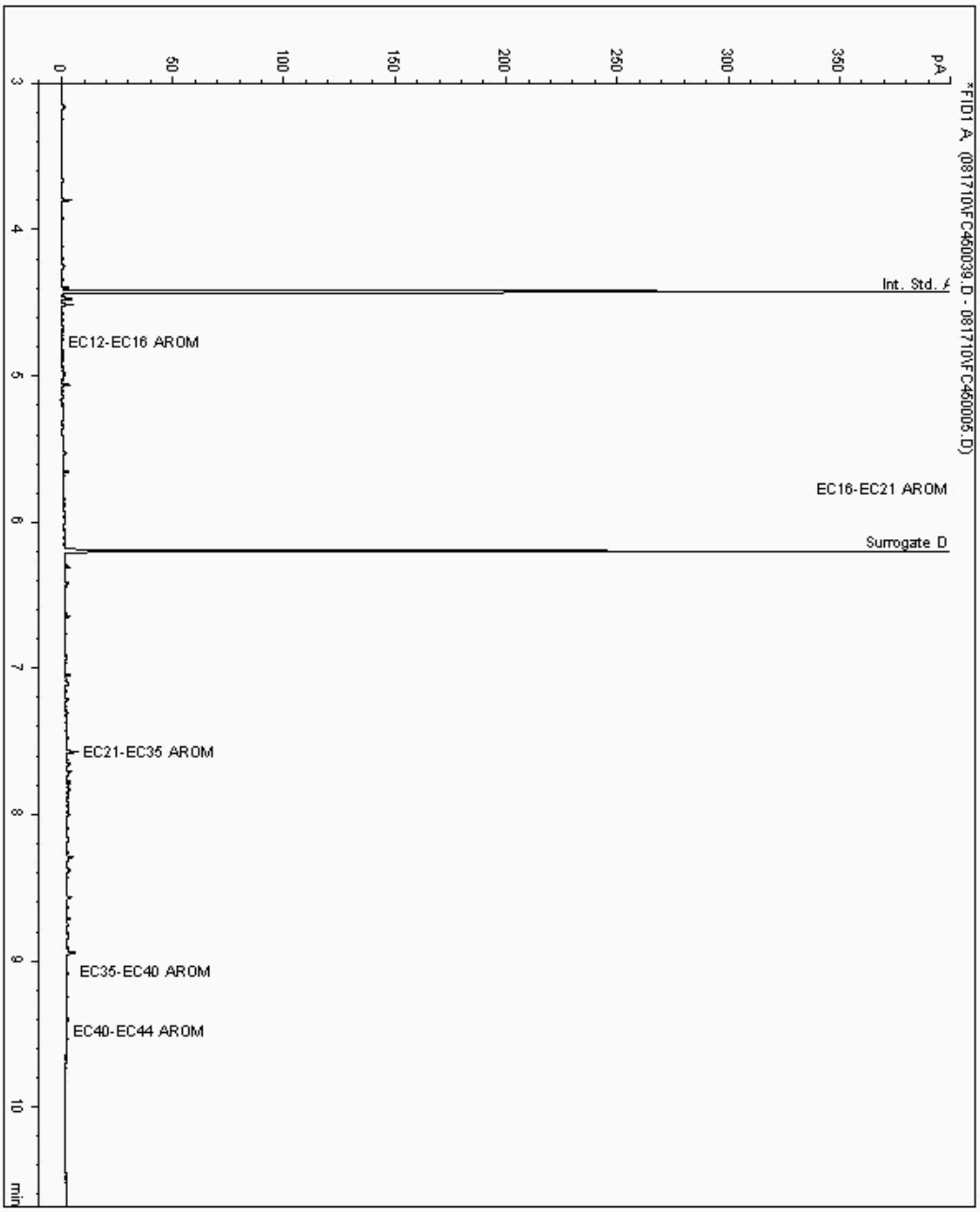
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1960918
		Sample ID	CRUSH 22
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062564-1960918
Date Acquired : 18/08/10 00:20:04 PM
Units : ppb
Dilution:



Validated

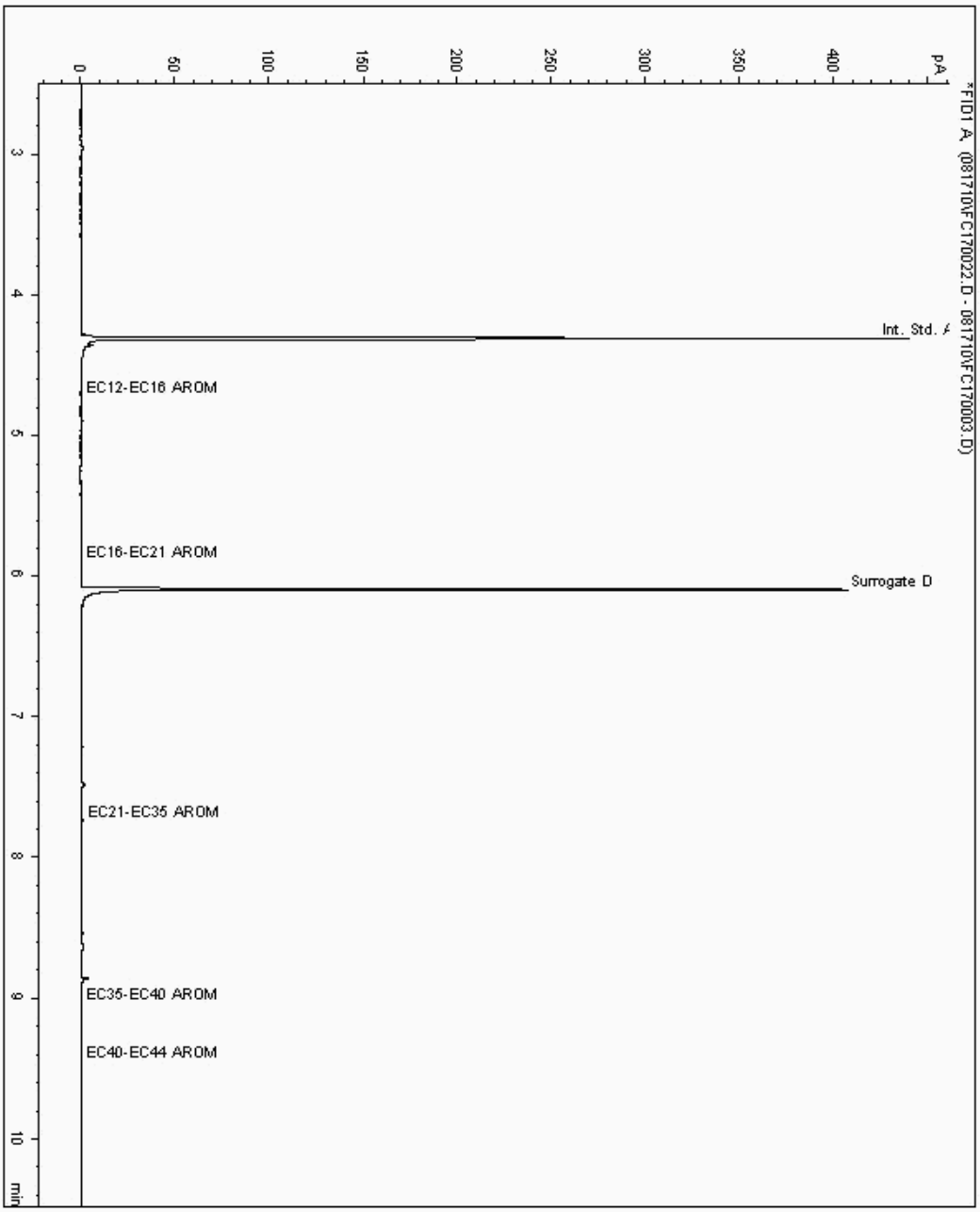
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1961747
		Sample ID	CST 84
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062425-1961747
Date Acquired : 18/08/10 02:21:03 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000



Validated

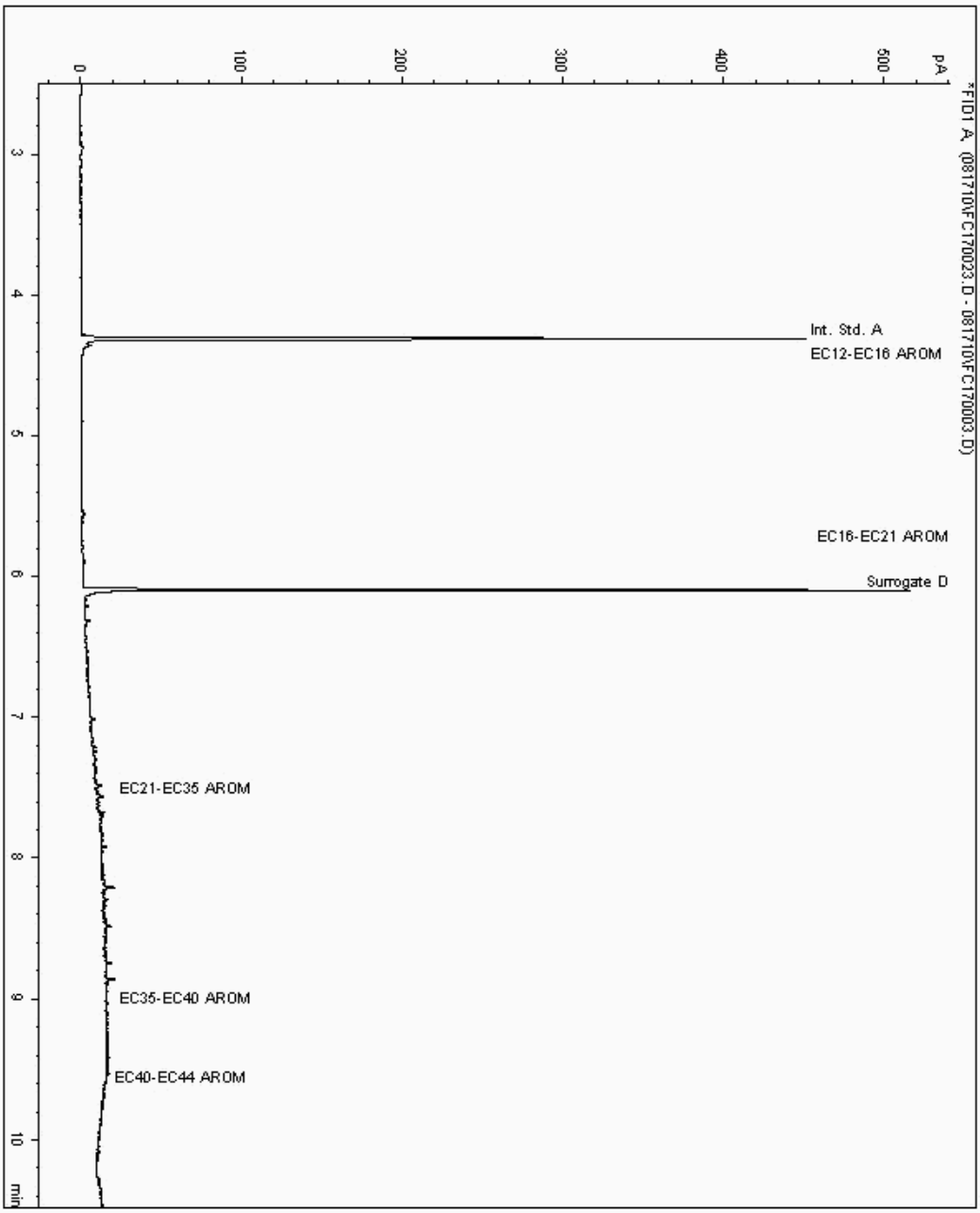
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1962002
		Sample ID	CST 85
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062458-1962002
Date Acquired : 18/08/10 02:40:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980



Validated

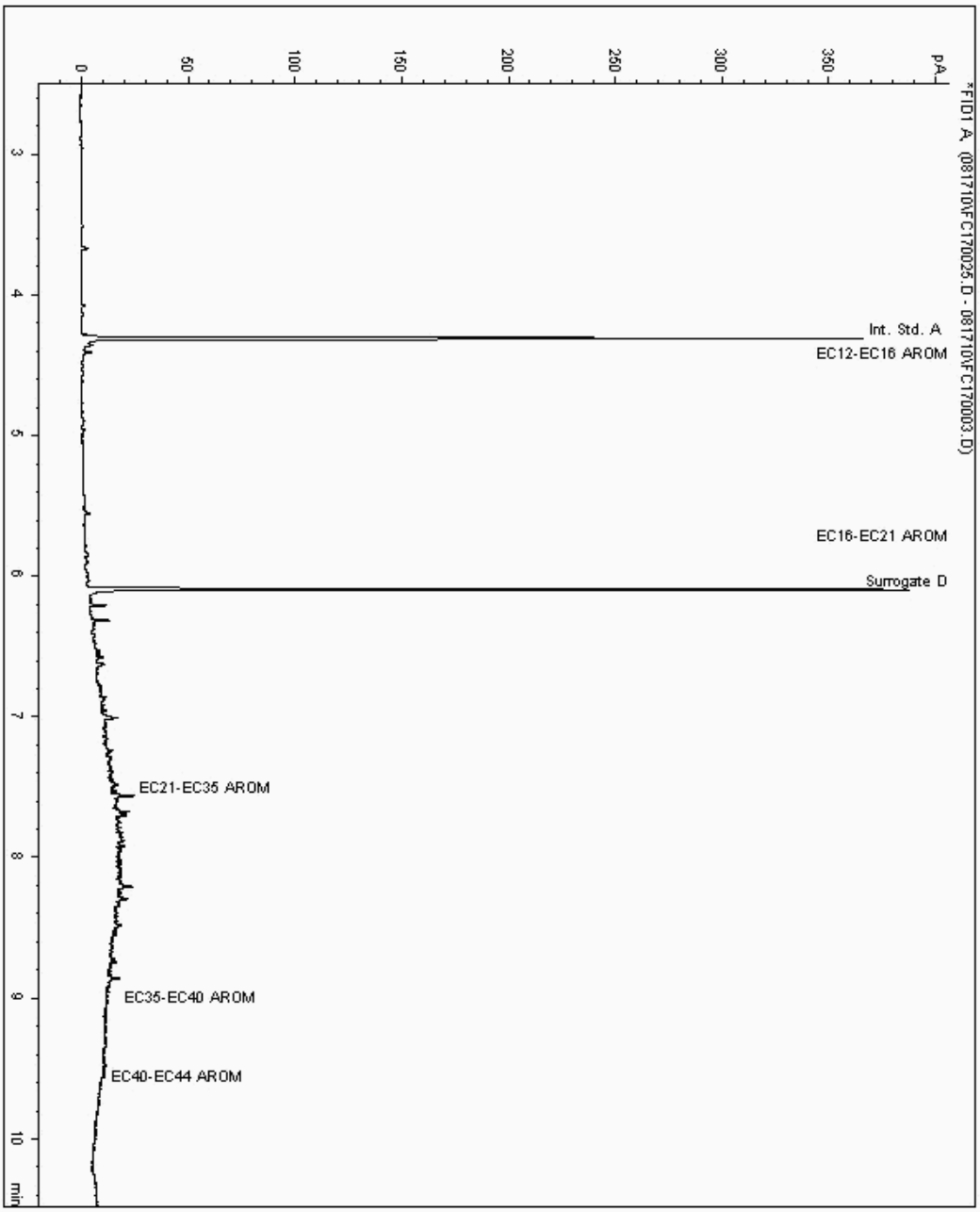
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1962013
		Sample ID	CST 86
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062484-1962013
Date Acquired : 18/08/10 03:19:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010



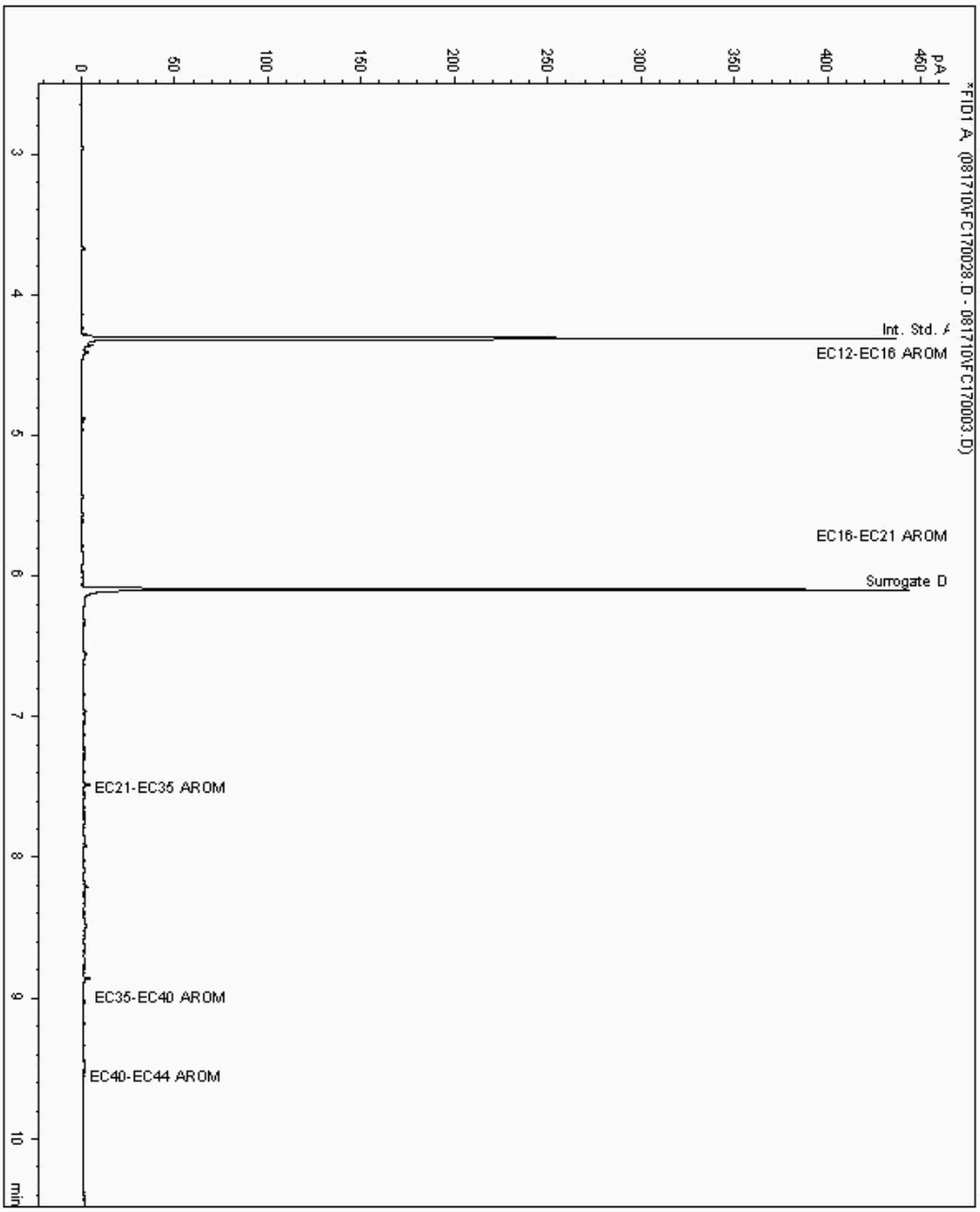
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1962456
		Sample ID	CST 87
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062506-1962456
Date Acquired : 18/08/10 04:18:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000



Validated

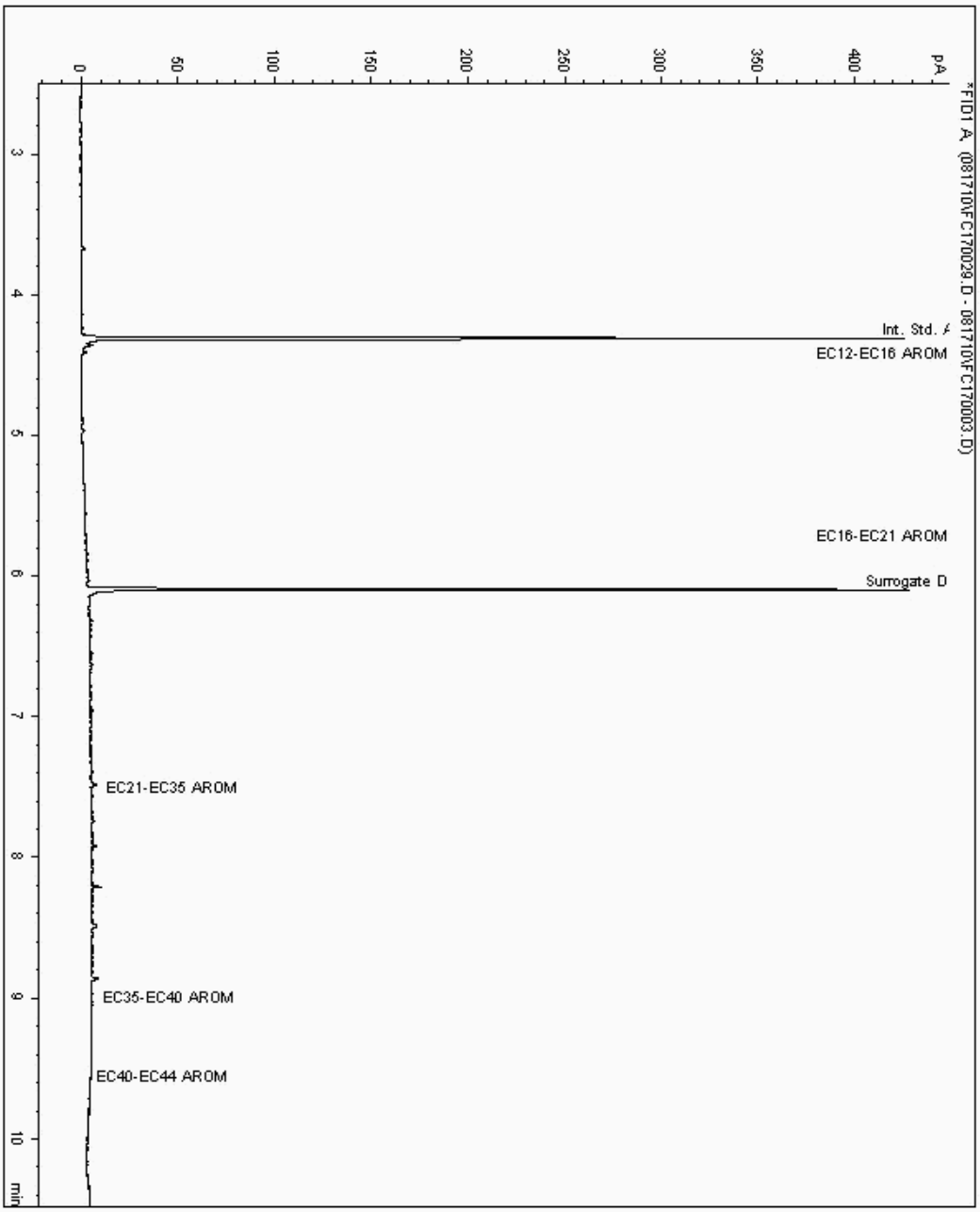
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1962478
		Sample ID	CST 88
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062521-1962478
Date Acquired : 18/08/10 04:37:45 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950



Validated

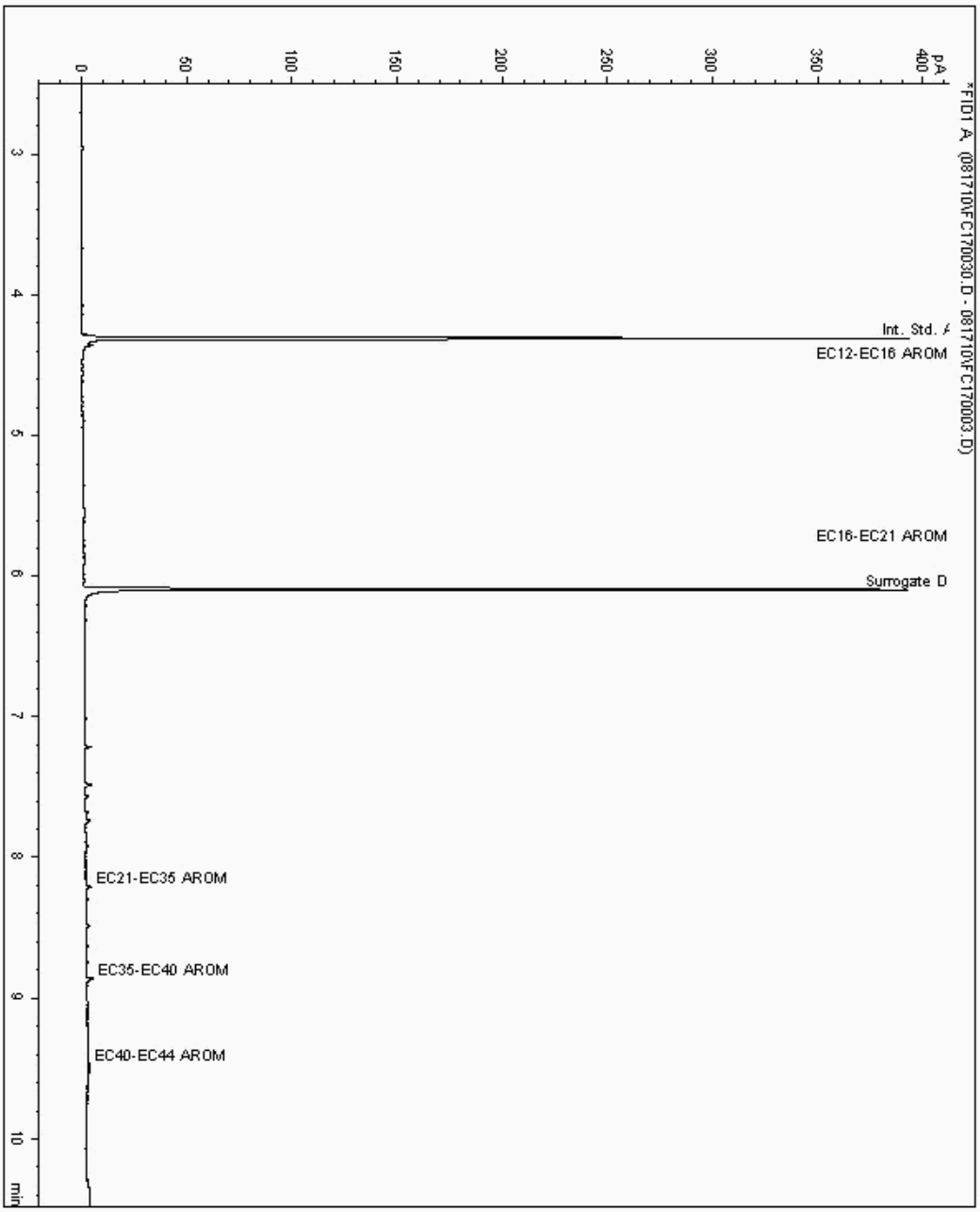
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) GC (S)	**Sample No**	1962493
		Sample ID	CRUSH 21
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062533-1962493
Date Acquired : 18/08/10 04:57:12 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000



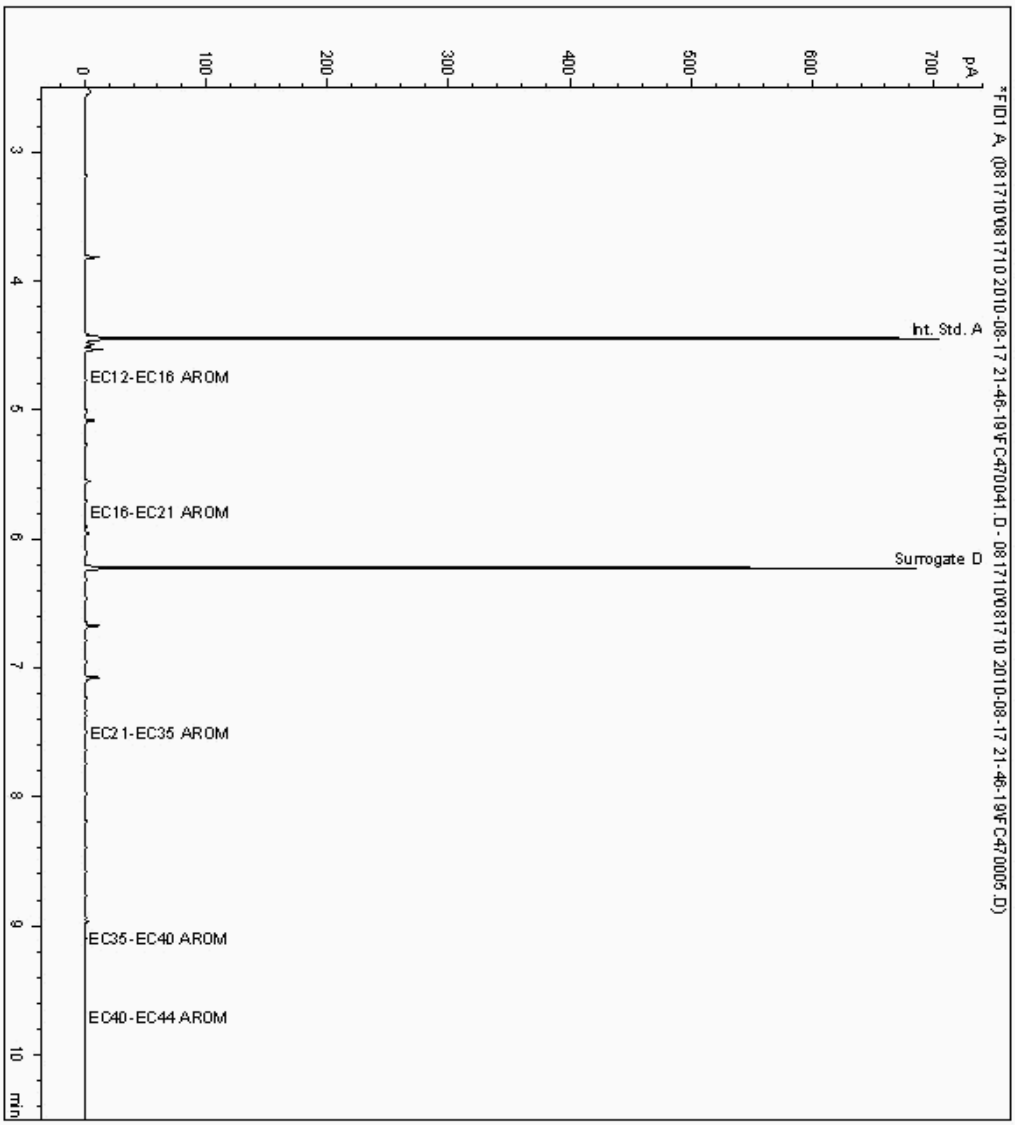
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	EPH CWG (Aromatic) Aqueous GC (W)	**Sample No**	1957483
		Sample ID	36" SEWER
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062405-1957483
Date Acquired : 18/08/10 10:27:38
Units :
Dilution :
CF : 1
Multiplier : 0.008



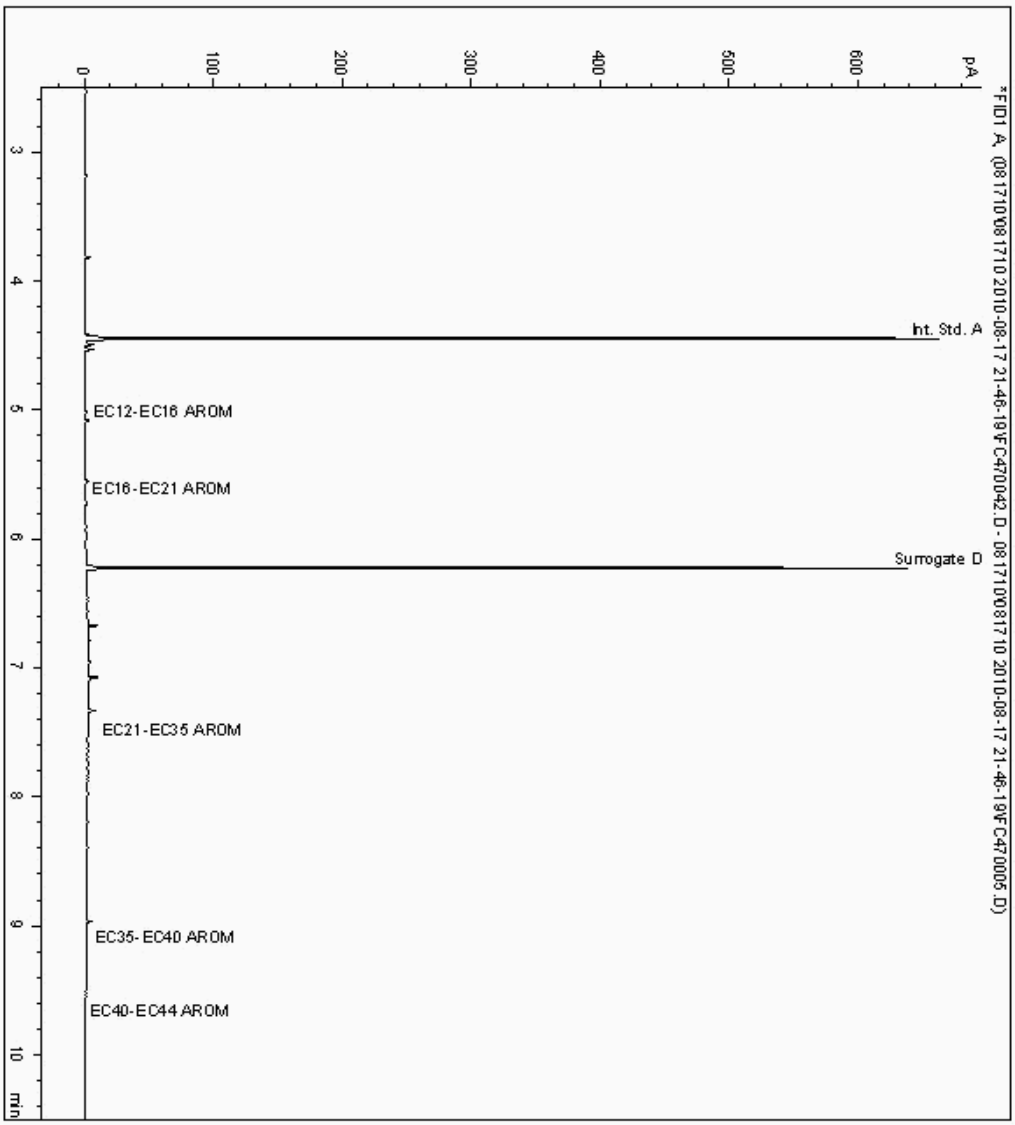
Validated

ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	EPH CWG (Aromatic) Aqueous GC (W)	**Sample No**	1957505
		Sample ID	NSR INFLOW
		Depth	

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 2062418-1957505
Date Acquired : 18/08/10 10:46:43
Units :
Dilution :
CF : 1
Multiplier : 0.008



Validated

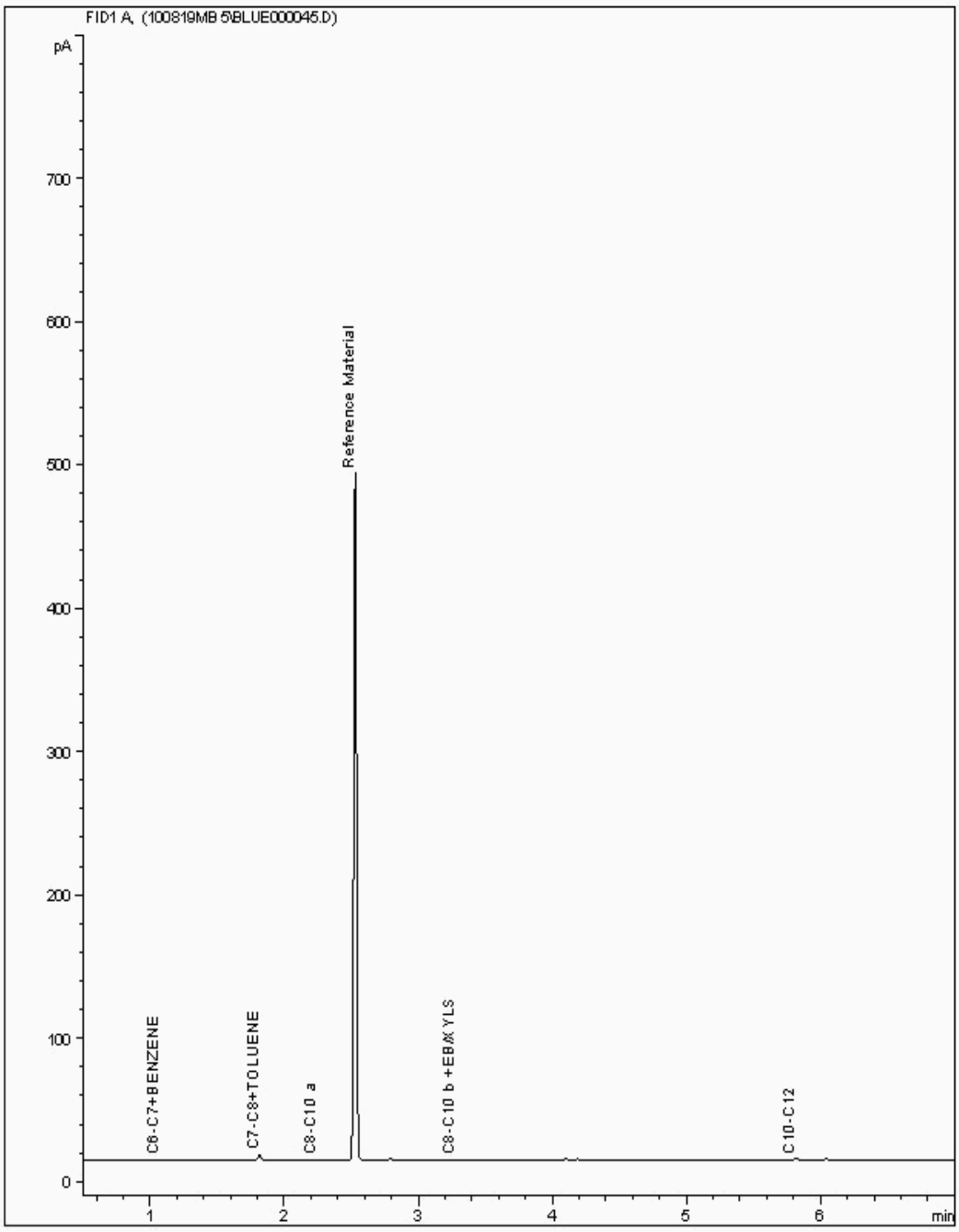
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	GRO by GC-FID (S)	**Sample No**	1955941
		Sample ID	CST 84
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062423-1955941
Date Acquired : 20/08/10 04:25:42
Units : ppb
Dilution : 1



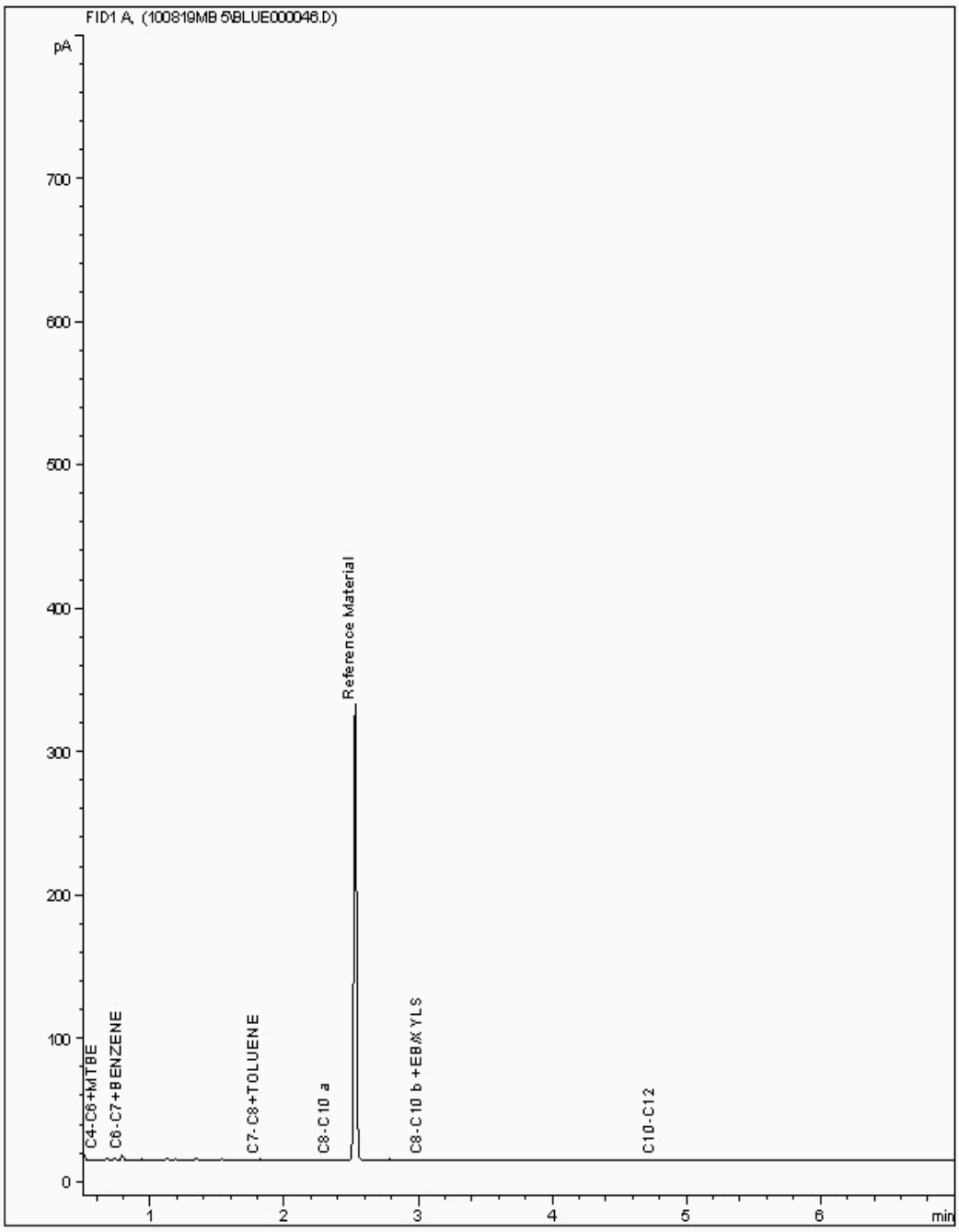
Validated

ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	GRO by GC-FID (S)	**Sample No**	1955967
		Sample ID	CST 85
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062456-1955967
Date Acquired : 20/08/10 04:39:45
Units : ppb
Dilution : 1



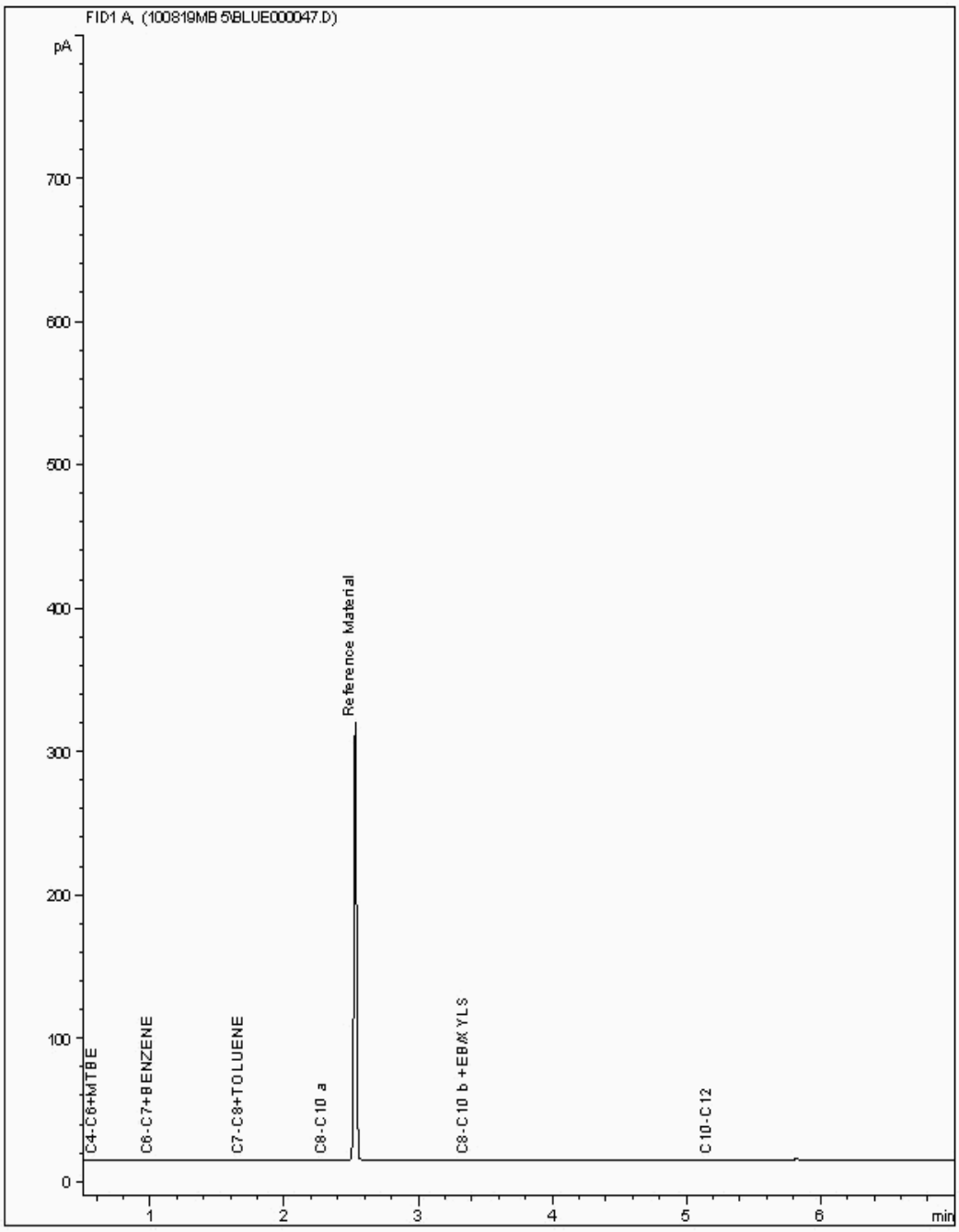
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ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	GRO by GC-FID (S)	**Sample No**	1955987
		Sample ID	CST 86
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062482-1955987
Date Acquired : 20/08/10 04:53:49
Units : ppb
Dilution : 1

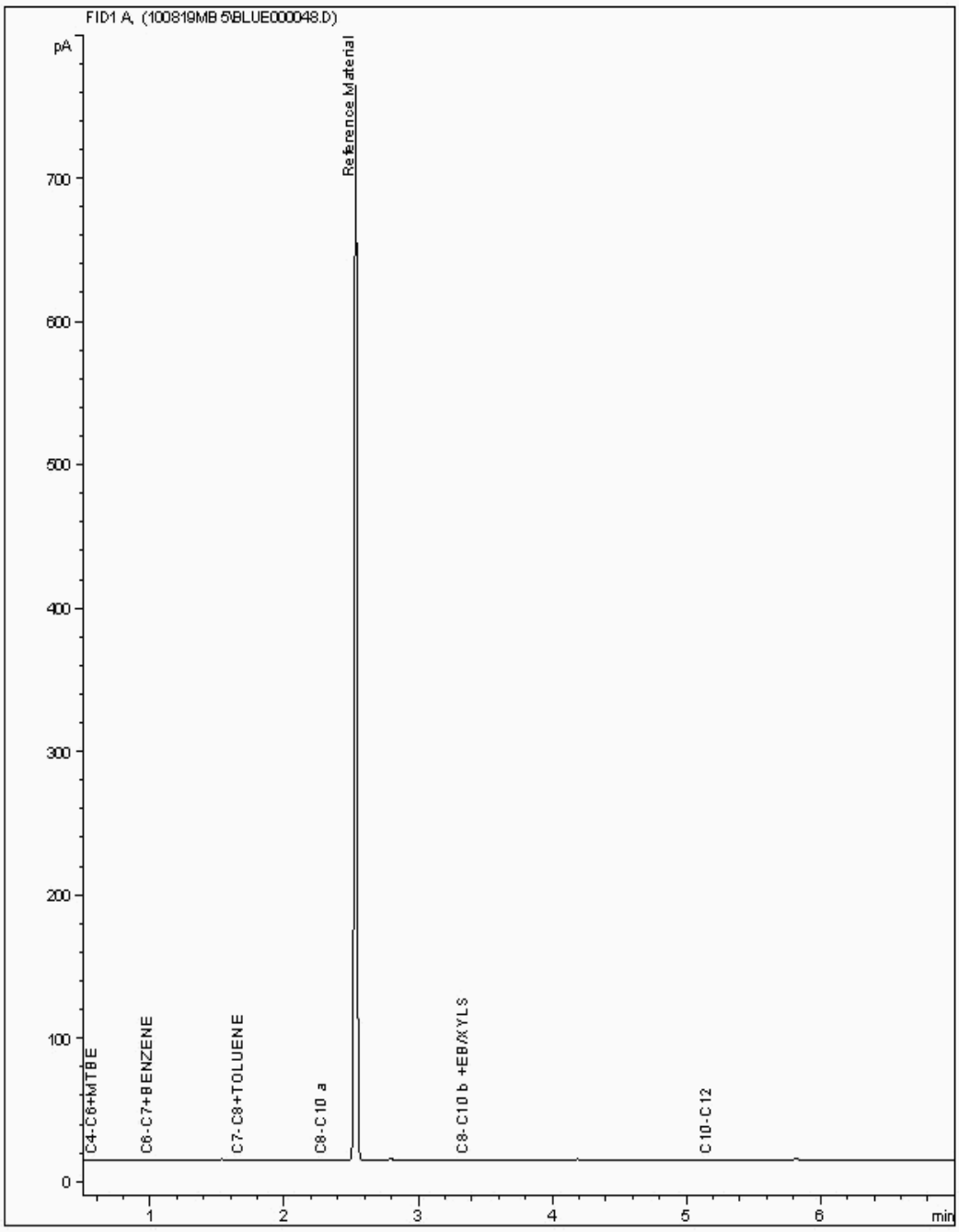


ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	GRO by GC-FID (S)	**Sample No**	1956014
		Sample ID	CST 87
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062504-1956014
Date Acquired : 20/08/10 05:16:29
Units : ppb
Dilution : 1



Validated

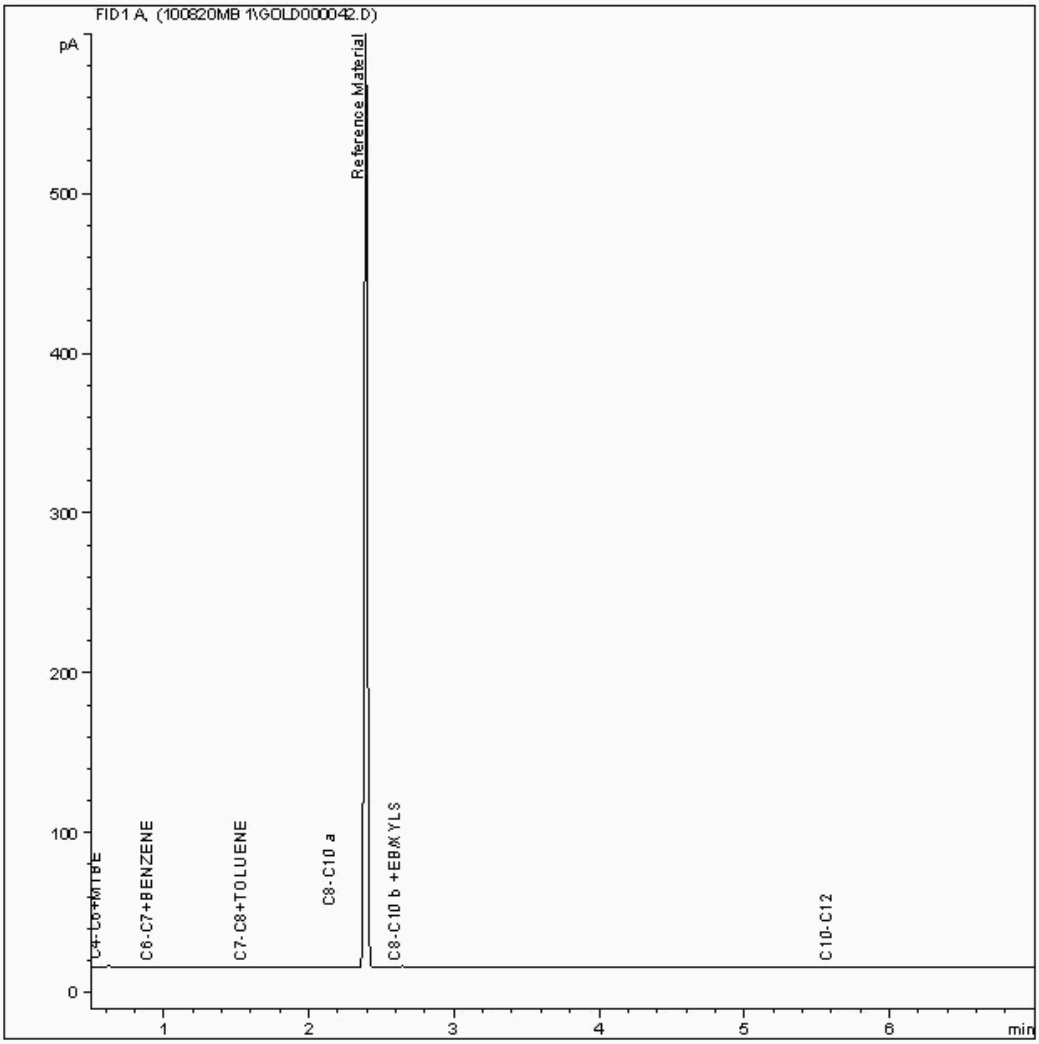
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	GRO by GC-FID (S)	**Sample No**	1956046
		Sample ID	CST 88
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062519-1956046
Date Acquired : 21/08/10 02:18:59
Units : ppb
Dilution : 1

#	Compound Name	Amount
1	C4-C6+MTBE	107
2	C6-C7+BENZENE	143
3	C7-C8+TOLUENE	160
4	C8-C10 a	203
5	Reference Material	8449
6	C8-C10 b +EB/XYLS	158
7	C10-C12	107



Validated

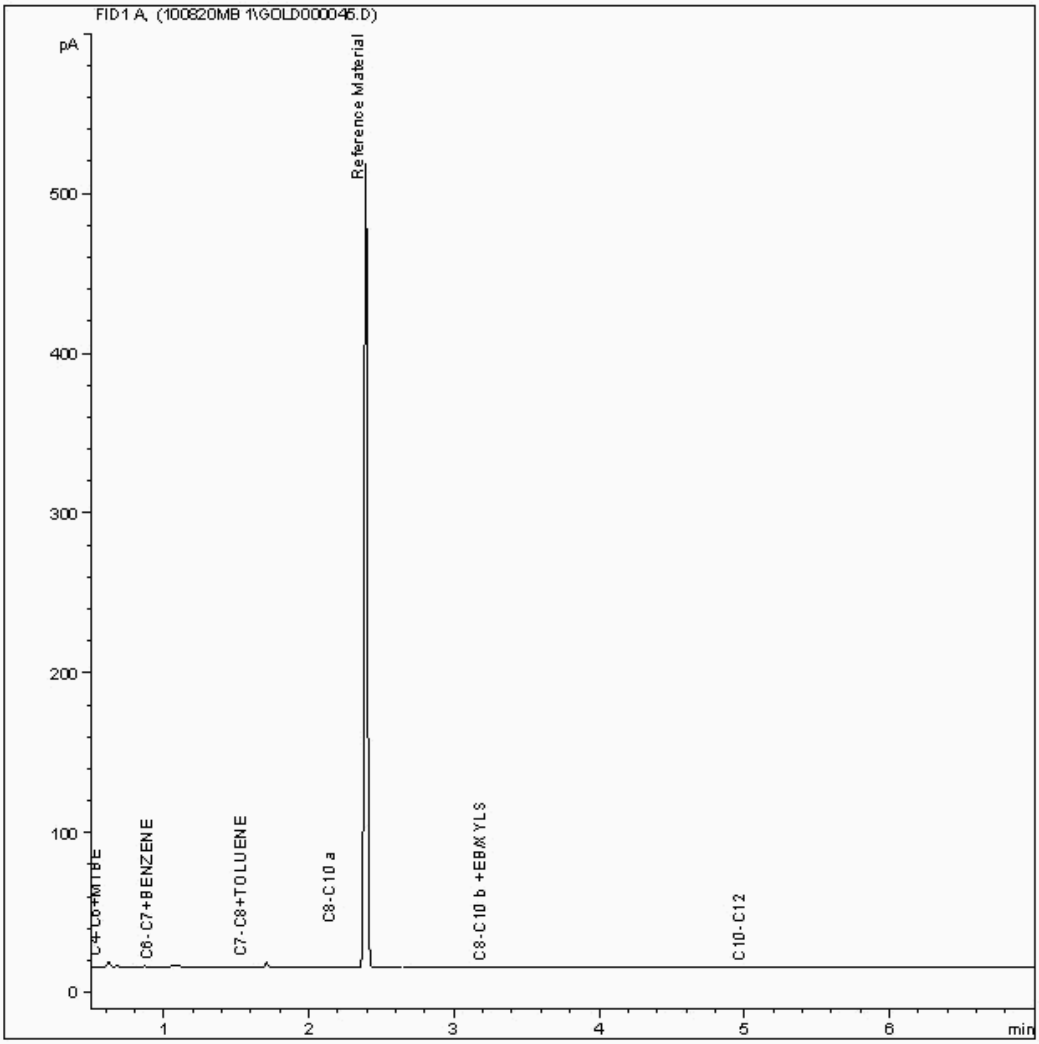
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	GRO by GC-FID (S)	**Sample No**	1956080
		Sample ID	CRUSH 21
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062531-1956080
Date Acquired : 21/08/10 03:01:12
Units : ppb
Dilution : 1

#	Compound Name	Amount
1	C4-C6+MTBE	234
2	C6-C7+BENZENE	244
3	C7-C8+TOLUENE	350
4	C8-C10 a	155
5	Reference Material	7197
6	C8-C10 b +EB/XYLS	283
7	C10-C12	324



Validated

ALcontrol Laboratories Analytical Services

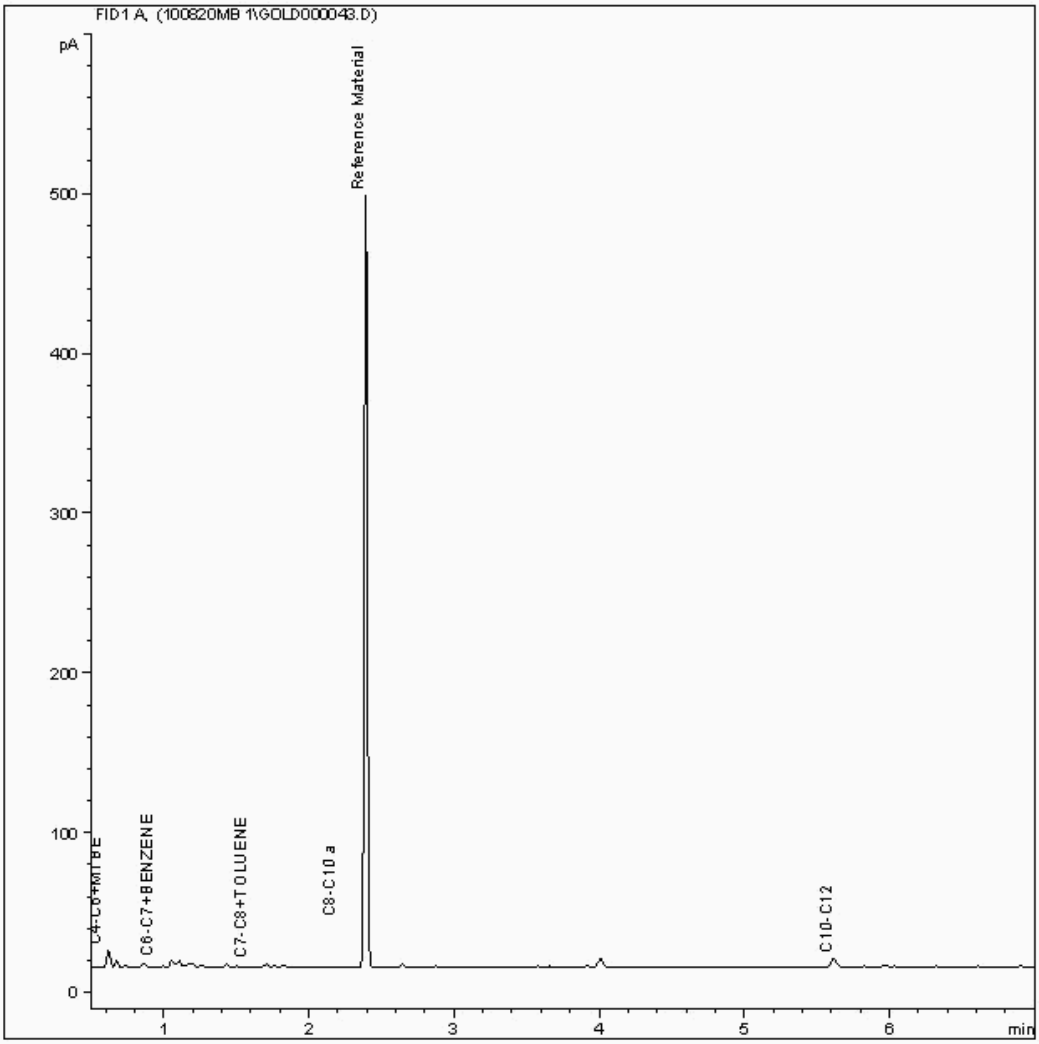
SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	GRO by GC-FID (S)	**Sample No**	1956096
		Sample ID	CRUSH 22
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062562-1956096
Date Acquired : 21/08/10 02:33:03
Units : ppb
Dilution : 1

#	Compound Name	Amount
1	C4-C6+MTBE	625
2	C6-C7+BENZENE	696
3	C7-C8+TOLUENE	810
4	C8-C10 a	285
5	Reference Material	6814
6	C8-C10 b +EB/XYLS	0
7	C10-C12	990



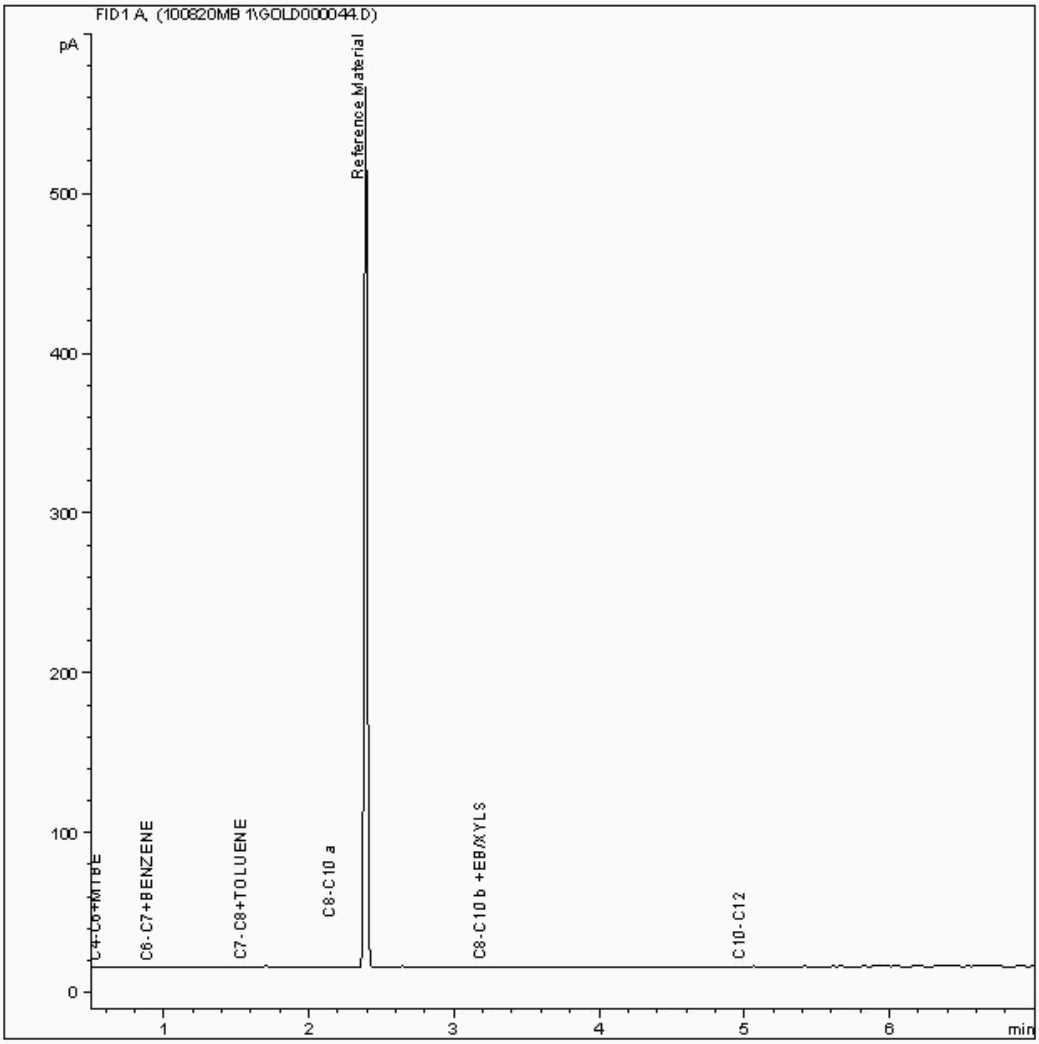
SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427

Analysis:	GRO by GC-FID (S)	**Sample No**	1956126
		Sample ID	CRUSH 23
		Depth	

ALcontrol Geochem Analytical Services
Gasoline Range Organics

Sample Identity : 2062577-1956126
Date Acquired : 21/08/10 02:47:07
Units : ppb
Dilution : 1

#	Compound Name	Amount
1	C4-C6+MTBE	70
2	C6-C7+BENZENE	98
3	C7-C8+TOLUENE	165
4	C8-C10 a	158
5	Reference Material	7862
6	C8-C10 b +EB/XYLS	376
7	C10-C12	1249



Validated

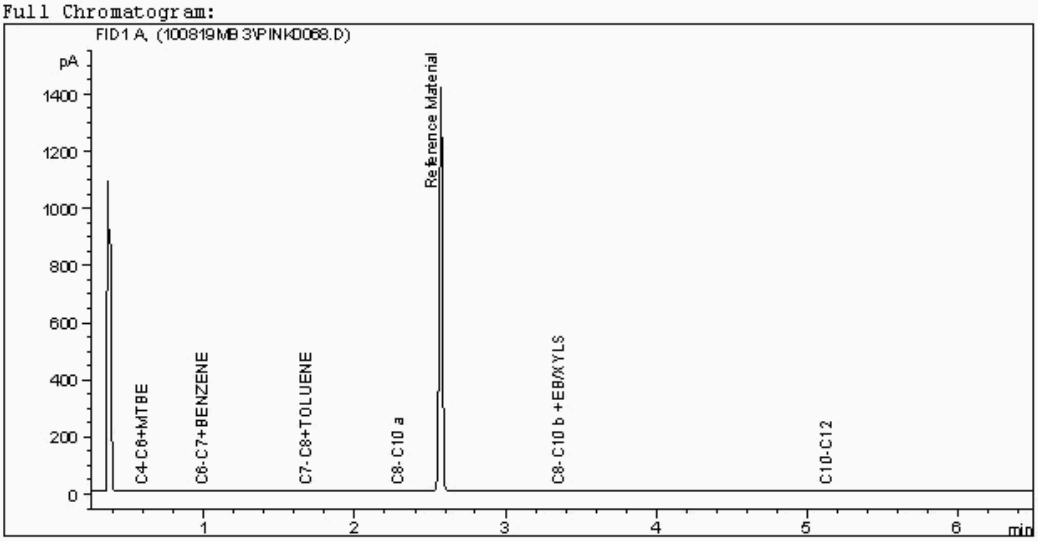
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	GRO by GC-FID (W)	**Sample No**	1955877
		Sample ID	36" SEWER
		Depth	

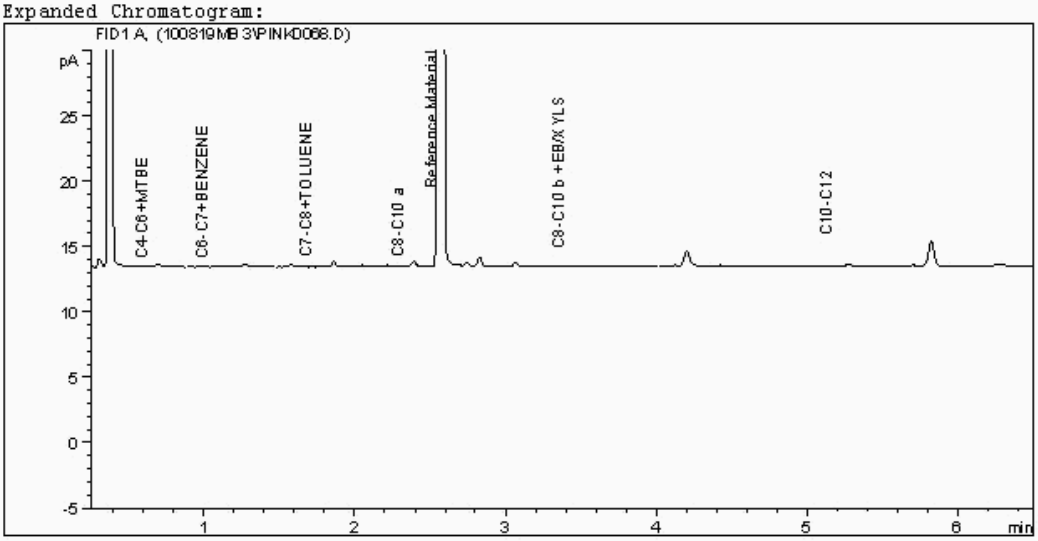
ALcontrol Analytical Services
Gasoline Range Organics

Sample Identity : 2062406-1955877
Date Acquired : 20/08/10 13:13:02
Units : ppb
Dilution : 1

Full Chromatogram:



Expanded Chromatogram:



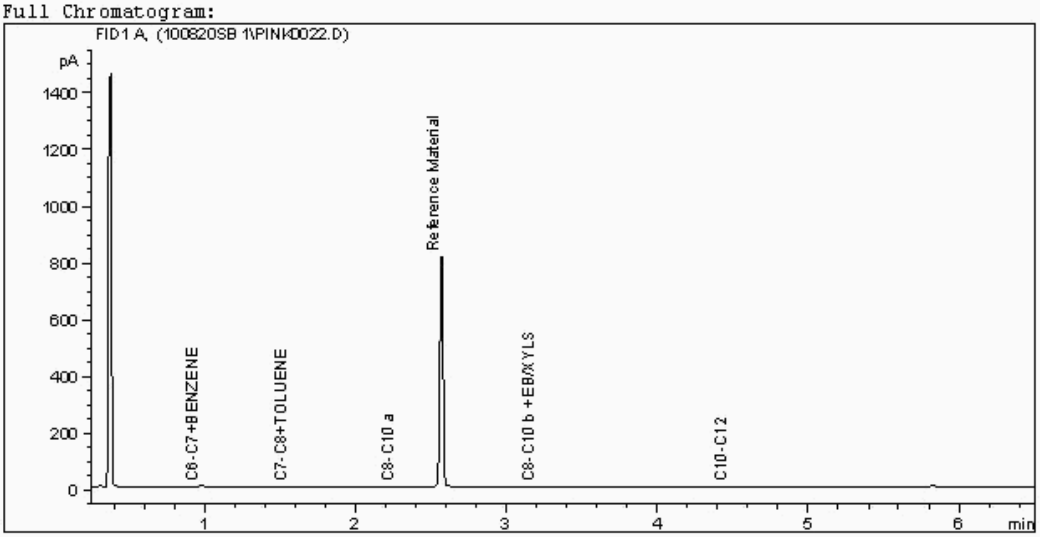
ALcontrol Laboratories Analytical Services

SDG:	100816-40	**Customer:**	Atkins Coed Darcy
Job:	H_ATKINS_LDC-64	**Attention:**	Alex Mann
Client Ref.:	Crush, Concrete, 36 and CBL	**Order No.:**	CD0045
Location:	Coed Darcy Urban Village	**Report No:**	94427
Analysis:	GRO by GC-FID (W)	**Sample No**	1955904
		Sample ID	NSR INFLOW
		Depth	

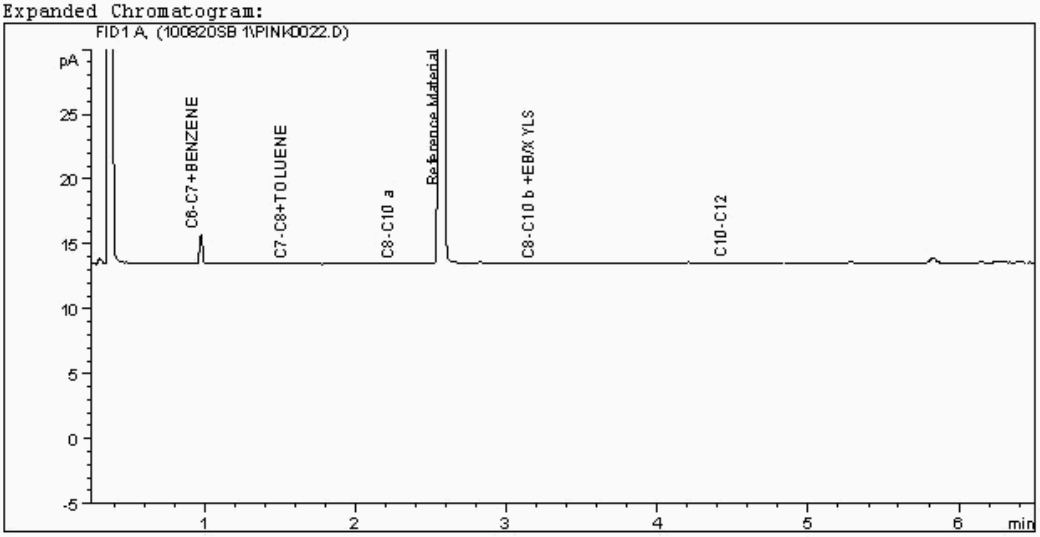
ALcontrol Analytical Services
Gasoline Range Organics

Sample Identity : 2062419-1955904
Date Acquired : 20/08/10 23:02:32
Units : ppb
Dilution : 1

Full Chromatogram:



Expanded Chromatogram:



APPENDIX

APPENDIX

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH_4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.
4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.
5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.
8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.
9. NDP – No determination possible due to insufficient/unsuitable sample.
10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.
11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.
12. Results relate only to the items tested
13. **Surrogate recoveries** – Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 – 130 %.
14. **Product analyses** – Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).
16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.
19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.
20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.
21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.
22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials – whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 – C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GS MS
SVOC	DCM	LIQUID/LIQUID SHAKE	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PEST OCP/OPP	DCM	LIQUID/LIQUID SHAKE	GC MS
TRIAZINE HERBS	DCM	LIQUID/LIQUID SHAKE	GC MS
PHENOLS MS	DCM	SOLID PHASE EXTRACTION	GC MS
TPH by INFRA RED (IR)	TCE	LIQUID/LIQUID EXTRACTION	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID EXTRACTION	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GC FID

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	D&C	DCM	SOXTHERM	GRAVIMETRIC
Cyclohexane Ext. Matter	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
Thin Layer Chromatography	D&C	DCM	SOXTHERM	IATROSCAN
Elemental Sulphur	D&C	DCM	SOXTHERM	HPLC
Phenols by GCMS	WET	DCM	SOXTHERM	GC-MS
Herbicides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
Pesticides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Min oil)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Cleaned up)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG by GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB tot / PCB con	D&C	HEXANE:ACETONE	END OVER END	GC-MS
Polyaromatic Hydrocarbons (MS)	WET	HEXANE:ACETONE	Microwave TM218.	GC-MS
C8-C40 (C6-C40)EZ Flash	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Polyaromatic Hydrocarbons Rapid GC	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Semi Volatile Organic Compounds	WET	DCM:ACETONE	SONICATE	GC-MS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content.

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace – Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

APPENDIX

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH_4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.
4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.
5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.
8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.
9. NDP – No determination possible due to insufficient/unsuitable sample.
10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.
11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.
12. **Surrogate recoveries** – Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted.
13. **Product analyses** – Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
14. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).
15. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
16. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
17. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.
19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.
20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.
21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.
22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials – whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 – C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GS MS
SVOC	DCM	LIQUID/LIQUID SHAKEN SVOC	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PEST OCP/OPP	DCM/EA	SOLID PHASE EXTRACTION	GC MS
TRIAZINE HERBS	DCM/EA	SOLID PHASE EXTRACTION	GC MS
PHENOLS MS	DCM	SOLID PHASE EXTRACTION	GC MS
TPH by INFRA RED (IR)	TCE	LIQUID/LIQUID EXTRACTION	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID EXTRACTION	HPLC
SAPONIFIABLE	TCE	LIQUID/LIQUID EXTRACTION	HPLC
UNSAPONIFIABLE	TCE	LIQUID/LIQUID EXTRACTION	HPLC
GLYCOLS	DCM	LIQUID/LIQUID EXTRACTION	EZ FLASH

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	D&C	DCM	SOXTHERM	GRAVIMETRIC
Cyclohexane Ext. Matter	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
Thin Layer Chromatography	D&C	DCM	SOXTHERM	IATROSCAN
Elemental Sulphur	D&C	DCM	SOXTHERM	HPLC
Phenols by GCMS	WET	DCM	SOXTHERM	GC-MS
Herbicides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
Pesticides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Min oil)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Cleaned up)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG by GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB tot / PCB con	D&C	HEXANE:ACETONE	END OVER END	GC-MS
Polyaromatic Hydrocarbons (MS)	WET	HEXANE:ACETONE	Microwave TM218.	GC-MS
C8-C40 (C6-C40)EZ Flash	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Polyaromatic Hydrocarbons Rapid GC	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Semi Volatile Organic Compounds	WET	DCM:ACETONE	SONICATE	GC-MS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content.

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace – Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

ALcontrol Laboratories

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Attention: Alex Mann

CERTIFICATE OF ANALYSIS

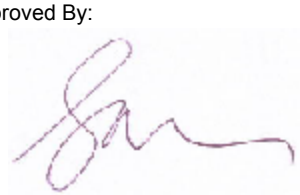
Date:	08 June 2012
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	120530-62
Your Reference:	Not Specified.
Location:	Coed Darcy Urban Village
Report No:	183510

We received 18 samples on Wednesday May 30, 2012 and 18 of these samples were scheduled for analysis which was completed on Friday June 08, 2012. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5663706	CAV001		0.40	28/05/2012
5663693	CAV001		0.90	28/05/2012
5663698	CAV002		0.40	28/05/2012
5663697	CAV002		1.00	28/05/2012
5663705	CAV003		0.40	28/05/2012
5663704	CAV003		1.00	28/05/2012
5663692	CAV004		0.10	28/05/2012
5663694	CAV004		0.70	28/05/2012
5663703	CAV004		1.40	28/05/2012
5663701	CAV005		0.30	28/05/2012
5663710	CAV005		1.00	28/05/2012
5663700	CAV005		1.40	28/05/2012
5663691	CAV006		0.50	28/05/2012
5663713	CAV006		1.50	28/05/2012
5663711	CAV007		0.50	28/05/2012
5663708	CAV007		1.50	28/05/2012
5663696	CAV008		0.30	28/05/2012
5663702	CAV008		0.60	28/05/2012

Only received samples which have had analysis scheduled will be shown on the following pages.

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

	Lab Sample No(s)		5663693			5663706		5663697			5663698			5663704			5663705			5663692			5663694			5663703			5663700			5663701			5663691		5663696			5663702		
	Customer Sample Reference		CAV001			CAV001		CAV002			CAV002			CAV003			CAV003			CAV004			CAV004			CAV004			CAV005			CAV005			CAV006		CAV008			CAV008		
	AGS Reference																																									
	Depth (m)		0.90			0.40		1.00			0.40			1.00			0.40			0.10			0.70			1.40			1.40			0.30			0.50		0.30			0.60		
	Container		250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 18			X					X			X			X			X			X			X			X			X			X		X			X			X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Cadmium	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Chromium	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Copper	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Lead	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Mercury	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Nickel	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Selenium	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Vanadium	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
	Zinc	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
PAH by GCMS	All	NDPs: 0 Tests: 18	X			X		X			X			X			X			X			X			X			X			X			X		X			X		
pH	All	NDPs: 0 Tests: 18		X			X		X			X			X			X			X			X			X			X			X		X			X			X	

ALcontrol Laboratories

Validated

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Test		NDPs / Tests
Sample description	All	NDPs: 0 Tests: 18
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 4
TPH CWG GC (S)	All	NDPs: 0 Tests: 18
VOC MS (S)	All	NDPs: 0 Tests: 4

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample description	Semi Volatile Organic Compounds	TPH CWG GC (S)	VOC MS (S)
5663693	CAV001		0.90	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663706	CAV001		0.40	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
5663697	CAV002		1.00	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663698	CAV002		0.40	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663704	CAV003		1.00	250g Amber Jar (AL	X	X	X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				X
5663705	CAV003		0.40	250g Amber Jar (AL	X	X	X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				X
5663692	CAV004		0.10	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663694	CAV004		0.70	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663703	CAV004		1.40	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663700	CAV005		1.40	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663701	CAV005		0.30	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663691	CAV006		0.50	400g Tub (ALE214)	X	X	X	
				60g VOC (ALE215)				X
5663696	CAV008		0.30	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				
5663702	CAV008		0.60	250g Amber Jar (AL	X		X	
				400g Tub (ALE214)				
				60g VOC (ALE215)				

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		5663706	CAV001		0.40	60g VOC (ALE215)
		5663710	CAV005		1.00	250g Amber Jar (AL
		5663713	CAV006		1.50	400g Tub (ALE214)
		5663708	CAV007		1.50	60g VOC (ALE215)
		5663711	CAV007		0.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 18				X X X X X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 18				X X X X X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 18				X X X X X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 18				X X X X X
	Cadmium	NDPs: 0 Tests: 18				X X X X X
	Chromium	NDPs: 0 Tests: 18				X X X X X
	Copper	NDPs: 0 Tests: 18				X X X X X
	Lead	NDPs: 0 Tests: 18				X X X X X
	Mercury	NDPs: 0 Tests: 18				X X X X X
	Nickel	NDPs: 0 Tests: 18				X X X X X
	Selenium	NDPs: 0 Tests: 18				X X X X X
	Vanadium	NDPs: 0 Tests: 18				X X X X X
	Zinc	NDPs: 0 Tests: 18				X X X X X
PAH by GCMS	All	NDPs: 0 Tests: 18				X X X X X
pH	All	NDPs: 0 Tests: 18				X X X X X

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		5663706	CAV001		0.40	60g VOC (ALE215)
		5663710	CAV005		1.00	250g Amber Jar (AL
		5663713	CAV006		1.50	400g Tub (ALE214)
		5663708	CAV007		1.50	60g VOC (ALE215)
		5663711	CAV007		0.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
Sample description	All	NDPs: 0 Tests: 18				X X X X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 4				X
TPH CWG GC (S)	All	NDPs: 0 Tests: 18				X X X X
VOC MS (S)	All	NDPs: 0 Tests: 4				X

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
5663693	CAV001	0.90	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
5663706	CAV001	0.40	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
5663697	CAV002	1.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
5663698	CAV002	0.40	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
5663704	CAV003	1.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
5663705	CAV003	0.40	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
5663692	CAV004	0.10	Light Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	N/A
5663694	CAV004	0.70	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
5663703	CAV004	1.40	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
5663700	CAV005	1.40	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
5663701	CAV005	0.30	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
5663710	CAV005	1.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
5663691	CAV006	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
5663713	CAV006	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
5663708	CAV007	1.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
5663711	CAV007	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
5663696	CAV008	0.30	Dark Brown	Sand	0.1 - 2 mm	N/A	N/A
5663702	CAV008	0.60	Dark Brown	Sandy Clay	0.1 - 2 mm	N/A	N/A

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV001	CAV001	CAV002	CAV002	CAV003	CAV003
			Depth (m)	0.40	0.90	0.40	1.00	0.40	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663706	5663693	5663698	5663697	5663705	5663704
			AGS Reference						
pH	1 pH Units	TM133		8.02 M	8.05 M	8.15 M	8.34 M	8 M	7.81 M
Arsenic	<0.6 mg/kg	TM181		37.4 M	20.5 M	23.2 M	14.3 M	25.9 M	27.5 M
Cadmium	<0.02 mg/kg	TM181		1.05 M	0.571 M	0.62 M	0.571 M	0.743 M	0.81 M
Chromium	<0.9 mg/kg	TM181		25.8 M	17.8 M	15.2 M	13.9 M	635 M	18.6 M
Copper	<1.4 mg/kg	TM181		220 M	45.2 M	69 M	49.6 M	77.7 M	109 M
Lead	<0.7 mg/kg	TM181		148 M	47 M	55.9 M	180 M	139 M	127 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		23.3 M	23.6 M	22.1 M	21.7 M	35.1 M	28.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<10 #	<1 #
Vanadium	<0.2 mg/kg	TM181		27.4 #	16.8 #	18.4 #	19.4 #	270 #	27.2 #
Zinc	<1.9 mg/kg	TM181		431 M	164 M	155 M	248 M	396 M	262 M

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV004	CAV004	CAV004	CAV005	CAV005	CAV005
			Depth (m)	0.10	0.70	1.40	0.30	1.00	1.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663692	5663694	5663703	5663701	5663710	5663700
			AGS Reference						
pH	1 pH Units	TM133		7.73 M	6.77 M	7.15 M	7.91 M	7.9 M	7.22 M
Arsenic	<0.6 mg/kg	TM181		22.5 M	269 M	87.7 M	36.1 M	27 M	11.3 M
Cadmium	<0.02 mg/kg	TM181		0.89 M	1.77 M	1.03 M	1.46 M	1.2 M	0.314 M
Chromium	<0.9 mg/kg	TM181		21.4 M	18.3 M	18.1 M	16.4 M	19.5 M	14.1 M
Copper	<1.4 mg/kg	TM181		83 M	1180 M	214 M	120 M	112 M	49.2 M
Lead	<0.7 mg/kg	TM181		82.4 M	738 M	358 M	178 M	145 M	42.3 M
Mercury	<0.14 mg/kg	TM181		0.191 M	<0.14 M	<0.14 M	<0.14 M	0.166 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		29.7 M	44.3 M	31.1 M	27.1 M	41.8 M	25.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		32.8 #	22.9 #	24.6 #	21.1 #	27.3 #	15.8 #
Zinc	<1.9 mg/kg	TM181		255 M	1990 M	742 M	881 M	341 M	107 M

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV006	CAV006	CAV007	CAV007	CAV008	CAV008
			Depth (m)	0.50	1.50	0.50	1.50	0.30	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663691	5663713	5663711	5663708	5663696	5663702
			AGS Reference						
pH	1 pH Units	TM133		8.01 M	7.66 M	7.53 M	6.81 M	8.18 M	7.63 M
Arsenic	<0.6 mg/kg	TM181		43.8 M	20.6 M	27.5 M	79.5 M	14.5 M	36.2 M
Cadmium	<0.02 mg/kg	TM181		1.11 M	1.12 M	0.946 M	2.77 M	0.275 M	1.01 M
Chromium	<0.9 mg/kg	TM181		21.4 M	16.6 M	30.8 M	17.9 M	7.18 M	14.1 M
Copper	<1.4 mg/kg	TM181		204 M	108 M	154 M	403 M	42.9 M	112 M
Lead	<0.7 mg/kg	TM181		126 M	1210 M	109 M	89.7 M	42.7 M	80.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		27.3 M	24.3 M	27.5 M	18.3 M	9.45 M	21.1 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.45 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		28.8 #	23.8 #	33 #	26.3 #	14.4 #	23 #
Zinc	<1.9 mg/kg	TM181		338 M	1410 M	307 M	293 M	63.1 M	168 M

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV001	CAV001	CAV002	CAV002	CAV003	CAV003
			Depth (m)	0.40	0.90	0.40	1.00	0.40	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663706	5663693	5663698	5663697	5663705	5663704
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.7	91.3	96.7	97.4	97.9	95.8
Acenaphthene-d10 % recovery**	%	TM218		101	93	98.5	99.4	100	99
Phenanthrene-d10 % recovery**	%	TM218		99.9	92.7	97.4	98.7	99	97.3
Chrysene-d12 % recovery**	%	TM218		88	83.5	88.2	85.7	87.5	85.1
Perylene-d12 % recovery**	%	TM218		97.5	91.2	94.5	94.6	97.4	95.3
Naphthalene	<9 µg/kg	TM218		50.9 M	144 M	74.6 M	88.3 M	316 M	235 M
Acenaphthylene	<12 µg/kg	TM218		16.8 M	40.2 M	27.8 M	16.8 M	51.5 M	58.8 M
Acenaphthene	<8 µg/kg	TM218		17.2 M	136 M	38.4 M	17.4 M	165 M	131 M
Fluorene	<10 µg/kg	TM218		26.2 M	244 M	50.5 M	33.3 M	179 M	223 M
Phenanthrene	<15 µg/kg	TM218		235 M	607 M	502 M	289 M	1620 M	1130 M
Anthracene	<16 µg/kg	TM218		65.8 M	495 M	115 M	50.1 M	408 M	563 M
Fluoranthene	<17 µg/kg	TM218		431 M	1880 M	1020 M	311 M	3200 M	1520 M
Pyrene	<15 µg/kg	TM218		367 M	1640 M	802 M	277 M	4290 M	2530 M
Benz(a)anthracene	<14 µg/kg	TM218		297 M	1020 M	626 M	181 M	2630 M	1320 M
Chrysene	<10 µg/kg	TM218		247 M	764 M	598 M	205 M	4580 M	2170 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		477 M	1140 M	910 M	327 M	3070 M	1650 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		171 M	412 M	320 M	103 M	858 M	519 M
Benzo(a)pyrene	<15 µg/kg	TM218		314 M	855 M	558 M	189 M	1930 M	1020 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		208 M	446 M	341 M	126 M	1090 M	633 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		72.7 M	154 M	137 M	48.1 M	626 M	341 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		227 M	487 M	367 M	144 M	1180 M	716 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		3220	10500	6490	2400	26200	14800

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV004	CAV004	CAV004	CAV005	CAV005	CAV005
			Depth (m)	0.10	0.70	1.40	0.30	1.00	1.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663692	5663694	5663703	5663701	5663710	5663700
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.9	94	100	98.9	99.6	93.3
Acenaphthene-d10 % recovery**	%	TM218		100	96.1	96.8	101	102	97.1
Phenanthrene-d10 % recovery**	%	TM218		99.3	93.8	88.1	99.5	101	95.4
Chrysene-d12 % recovery**	%	TM218		89.3	84.7	79.9	87	88.3	84.5
Perylene-d12 % recovery**	%	TM218		97.2	92.1	97.6	96.1	96.5	94.1
Naphthalene	<9 µg/kg	TM218		101 M	435 M	1270 M	112 M	244 M	172 M
Acenaphthylene	<12 µg/kg	TM218		43.7 M	58.8 M	484 M	37 M	49 M	49.4 M
Acenaphthene	<8 µg/kg	TM218		39 M	351 M	2120 M	96.1 M	131 M	140 M
Fluorene	<10 µg/kg	TM218		57.7 M	1010 M	4990 M	90.8 M	243 M	225 M
Phenanthrene	<15 µg/kg	TM218		366 M	2270 M	6990 M	858 M	942 M	843 M
Anthracene	<16 µg/kg	TM218		98.5 M	863 M	3160 M	219 M	342 M	410 M
Fluoranthene	<17 µg/kg	TM218		800 M	631 M	1010 M	1840 M	1090 M	831 M
Pyrene	<15 µg/kg	TM218		780 M	1940 M	5360 M	1420 M	1020 M	1580 M
Benz(a)anthracene	<14 µg/kg	TM218		641 M	353 M	555 M	1300 M	645 M	477 M
Chrysene	<10 µg/kg	TM218		685 M	438 M	883 M	1160 M	545 M	487 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1200 M	441 M	385 M	1950 M	986 M	606 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		382 M	129 M	92.9 M	652 M	306 M	209 M
Benzo(a)pyrene	<15 µg/kg	TM218		736 M	288 M	303 M	1250 M	671 M	456 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		458 M	159 M	131 M	730 M	404 M	237 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		187 M	71.6 M	82.1 M	297 M	148 M	96.5 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		486 M	194 M	181 M	777 M	459 M	289 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		7060	9630	28000	12800	8220	7100

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV006	CAV006	CAV007	CAV007	CAV008	CAV008
			Depth (m)	0.50	1.50	0.50	1.50	0.30	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663691	5663713	5663711	5663708	5663696	5663702
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.9	95.5	99.2	104	96.6	98.3
Acenaphthene-d10 % recovery**	%	TM218		102	98.7	101	102	98.2	101
Phenanthrene-d10 % recovery**	%	TM218		99.4	97	98.5	101	97.1	100
Chrysene-d12 % recovery**	%	TM218		88.7	87.3	81.1	90.6	85.7	87.3
Perylene-d12 % recovery**	%	TM218		93.8	94	89.4	101	89.4	93.4
Naphthalene	<9 µg/kg	TM218		305 M	98.5 M	1430 M	182 M	20.7 M	53.3 M
Acenaphthylene	<12 µg/kg	TM218		55.5 M	35.2 M	303 M	76 M	<12 M	22.8 M
Acenaphthene	<8 µg/kg	TM218		153 M	46 M	378 M	90.3 M	<8 M	24.7 M
Fluorene	<10 µg/kg	TM218		224 M	66 M	305 M	204 M	<10 M	44.9 M
Phenanthrene	<15 µg/kg	TM218		1440 M	571 M	1420 M	364 M	86.4 M	218 M
Anthracene	<16 µg/kg	TM218		387 M	105 M	576 M	148 M	21.1 M	57.5 M
Fluoranthene	<17 µg/kg	TM218		1530 M	612 M	4040 M	336 M	115 M	294 M
Pyrene	<15 µg/kg	TM218		1330 M	811 M	3510 M	325 M	100 M	257 M
Benz(a)anthracene	<14 µg/kg	TM218		964 M	346 M	2550 M	166 M	62.7 M	171 M
Chrysene	<10 µg/kg	TM218		988 M	378 M	2420 M	150 M	61.8 M	186 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1490 M	596 M	5040 M	267 M	99.9 M	307 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		451 M	179 M	1710 M	72.7 M	30.1 M	104 M
Benzo(a)pyrene	<15 µg/kg	TM218		922 M	414 M	3450 M	171 M	62.7 M	179 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		513 M	226 M	2250 M	106 M	40.4 M	128 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		186 M	82.1 M	789 M	38.2 M	<23 M	42.1 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		638 M	277 M	2550 M	123 M	47 M	140 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		11600	4840	32700	2820	748	2230

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV003	CAV003	CAV006	CAV006		
			Depth (m)	0.40	1.00	0.50	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012		
			Sample Time	.	.	.	.		
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012		
			SDG Ref	120530-62	120530-62	120530-62	120530-62		
			Lab Sample No.(s)	5663705	5663704	5663691	5663713		
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100		
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100		
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dibenzofuran	<100 µg/kg	TM157		403	<100	<100	<100		
Carbazole	<100 µg/kg	TM157		590	<100	<100	<100		
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100		
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100		

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV003	CAV003	CAV006	CAV006		
			Depth (m)	0.40	1.00	0.50	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012		
			Sample Time	.	.	.	.		
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012		
			SDG Ref	120530-62	120530-62	120530-62	120530-62		
			Lab Sample No.(s)	5663705	5663704	5663691	5663713		
			AGS Reference						
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Methylnaphthalene	<100 µg/kg	TM157		435	453	234	<100		
Benzo(a)anthracene	<100 µg/kg	TM157		27600	911	698	884		
Chrysene	<100 µg/kg	TM157		33200	2280	862	919		
Naphthalene	<100 µg/kg	TM157		478	227	148	<100		

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV001	CAV001	CAV002	CAV002	CAV003	CAV003
			Depth (m)	0.40	0.90	0.40	1.00	0.40	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663706	5663693	5663698	5663697	5663705	5663704
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		55	98	71	47	47	24
GRO >C5-C12	<44 µg/kg	TM089		610	12900	81.4	2730	1540	6380
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<2 M	<2 M	<2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	17	<10	<10	15.4	14.4
Aliphatics >C6-C8	<10 µg/kg	TM089		16.8	150	<10	64.4	70.3	188
Aliphatics >C8-C10	<10 µg/kg	TM089		99.7	1340	11.3	487	195	1330
Aliphatics >C10-C12	<10 µg/kg	TM089		253	6320	30.5	1110	673	2370
Aliphatics >C12-C16	<100 µg/kg	TM173		13000	45400	7450	73300	31200	145000
Aliphatics >C16-C21	<100 µg/kg	TM173		217000	396000	39800	175000	61100	288000
Aliphatics >C21-C35	<100 µg/kg	TM173		1550000	765000	157000	1230000	160000	636000
Aliphatics >C35-C44	<100 µg/kg	TM173		530000	155000	95100	975000	40600	172000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2310000	1360000	299000	2450000	292000	1240000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		66.1	895	<10	325	131	889
Aromatics >EC10-EC12	<10 µg/kg	TM089		169	4210	20.3	737	449	1580
Aromatics >EC12-EC16	<100 µg/kg	TM173		8260	73000	4870	22900	19500	102000
Aromatics >EC16-EC21	<100 µg/kg	TM173		133000	310000	25200	88300	82000	237000
Aromatics >EC21-EC35	<100 µg/kg	TM173		584000	481000	109000	411000	288000	465000
Aromatics >EC35-EC44	<100 µg/kg	TM173		213000	145000	101000	445000	99700	173000
Aromatics >EC40-EC44	<100 µg/kg	TM173		80400	59400	44100	175000	35400	69100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		939000	1010000	240000	967000	489000	977000
Total Aliphatics >C5-35	<100 µg/kg	TM173		1780000	1210000	204000	1480000	253000	1070000
Total Aromatics >C5-35	<100 µg/kg	TM173		726000	869000	139000	523000	390000	806000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		2500000	2080000	344000	2000000	642000	1880000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		3250000	2380000	540000	3420000	783000	2220000

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV004	CAV004	CAV004	CAV005	CAV005	CAV005
			Depth (m)	0.10	0.70	1.40	0.30	1.00	1.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663692	5663694	5663703	5663701	5663710	5663700
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		56	47	97	60	25	40
GRO >C5-C12	<44 µg/kg	TM089		6830	15300	189000	1120	11400	25500
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<50 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<100 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<20 M	<2 M	<2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<30 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<60 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<30 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	27.8	327	<10	73	205
Aliphatics >C6-C8	<10 µg/kg	TM089		58.9	824	7070	30	849	1930
Aliphatics >C8-C10	<10 µg/kg	TM089		1060	3960	29800	105	2640	5400
Aliphatics >C10-C12	<10 µg/kg	TM089		3000	4700	79100	543	3630	8590
Aliphatics >C12-C16	<100 µg/kg	TM173		50800	99200	196000	9990	68300	124000
Aliphatics >C16-C21	<100 µg/kg	TM173		79100	148000	195000	21500	152000	194000
Aliphatics >C21-C35	<100 µg/kg	TM173		265000	411000	346000	63800	355000	321000
Aliphatics >C35-C44	<100 µg/kg	TM173		73700	119000	82800	13900	133000	379000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		468000	777000	820000	109000	709000	1020000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<100	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<100	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		710	2640	19800	72.2	1760	3600
Aromatics >EC10-EC12	<10 µg/kg	TM089		2000	3130	52800	362	2420	5730
Aromatics >EC12-EC16	<100 µg/kg	TM173		11800	115000	280000	1810	27500	94400
Aromatics >EC16-EC21	<100 µg/kg	TM173		36900	171000	371000	12500	78600	182000
Aromatics >EC21-EC35	<100 µg/kg	TM173		159000	275000	335000	77100	277000	341000
Aromatics >EC35-EC44	<100 µg/kg	TM173		82700	120000	103000	40400	199000	449000
Aromatics >EC40-EC44	<100 µg/kg	TM173		35600	47500	39400	16400	87700	212000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		291000	681000	1090000	132000	583000	1070000
Total Aliphatics >C5-35	<100 µg/kg	TM173		399000	668000	854000	96000	582000	656000
Total Aromatics >C5-35	<100 µg/kg	TM173		211000	567000	1060000	91800	388000	626000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		609000	1230000	1910000	188000	970000	1280000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		766000	1470000	2100000	242000	1300000	2110000

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV006	CAV006	CAV007	CAV007	CAV008	CAV008
			Depth (m)	0.50	1.50	0.50	1.50	0.30	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012	28/05/2012
			Sample Time	.	.	.	.	.	.
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012	30/05/2012
			SDG Ref	120530-62	120530-62	120530-62	120530-62	120530-62	120530-62
			Lab Sample No.(s)	5663691	5663713	5663711	5663708	5663696	5663702
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		34	114	15	86	88	109
GRO >C5-C12	<44 µg/kg	TM089		1430	20500	30100	363000	150	37800
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<50 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<100 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	5.9 M	<2 M	<20 M	<2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<30 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M	<60 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<30 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		22.6	42.5	13.7	<100	<10	29
Aliphatics >C6-C8	<10 µg/kg	TM089		63.1	184	82.1	763	12.2	780
Aliphatics >C8-C10	<10 µg/kg	TM089		225	2100	2820	32000	15.5	6530
Aliphatics >C10-C12	<10 µg/kg	TM089		582	10100	15200	186000	63.3	15700
Aliphatics >C12-C16	<100 µg/kg	TM173		26200	137000	696000	274000	5090	83800
Aliphatics >C16-C21	<100 µg/kg	TM173		80400	193000	292000	167000	9390	84100
Aliphatics >C21-C35	<100 µg/kg	TM173		662000	652000	562000	106000	36700	202000
Aliphatics >C35-C44	<100 µg/kg	TM173		165000	244000	240000	37700	8150	46700
Total Aliphatics >C12-C44	<100 µg/kg	TM173		933000	1230000	1790000	585000	59400	417000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<100	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<100	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		150	1400	1880	21300	11.1	4360
Aromatics >EC10-EC12	<10 µg/kg	TM089		388	6700	10100	124000	42.2	10500
Aromatics >EC12-EC16	<100 µg/kg	TM173		13000	54900	257000	101000	1260	23100
Aromatics >EC16-EC21	<100 µg/kg	TM173		44900	141000	281000	94600	3500	44300
Aromatics >EC21-EC35	<100 µg/kg	TM173		431000	524000	613000	65900	21000	127000
Aromatics >EC35-EC44	<100 µg/kg	TM173		210000	497000	294000	29200	9200	53400
Aromatics >EC40-EC44	<100 µg/kg	TM173		85100	218000	126000	13400	3150	21600
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		700000	1220000	1450000	290000	35000	247000
Total Aliphatics >C5-35	<100 µg/kg	TM173		769000	994000	1570000	766000	51300	393000
Total Aromatics >C5-35	<100 µg/kg	TM173		490000	728000	1160000	406000	25800	209000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1260000	1720000	2730000	1170000	77100	602000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1630000	2460000	3270000	1240000	94500	702000

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV003	CAV003	CAV006	CAV006		
			Depth (m)	0.40	1.00	0.50	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012		
			Sample Time	.	.	.	.		
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012		
			SDG Ref	120530-62	120530-62	120530-62	120530-62		
			Lab Sample No.(s)	5663705	5663704	5663691	5663713		
			AGS Reference						
Dibromofluoromethane**	%	TM116		97.3	103	104	97.8		
Toluene-d8**	%	TM116		96	104	98.8	93.9		
4-Bromofluorobenzene**	%	TM116		127	108	113	129		
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 M	<80 M	<80 M	<8 M		
Chloromethane	<7 µg/kg	TM116		<14	<140	<140	<14		
Vinyl Chloride	<10 µg/kg	TM116		<20	<200	<200	<20		
Bromomethane	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<26 M		
Chloroethane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<28 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<12 M		
1.1-Dichloroethene	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<20 #		
Carbon Disulphide	<7 µg/kg	TM116		<14 M	<140 M	<140 M	30.1 M		
Dichloromethane	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<20 #		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<22 M		
trans-1-2-Dichloroethene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<22 M		
1.1-Dichloroethane	<8 µg/kg	TM116		<16 M	<160 M	<160 M	<16 M		
cis-1-2-Dichloroethene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	35.5 M		
2.2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<24 M		
Bromochloromethane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<28 M		
Chloroform	<8 µg/kg	TM116		<16 M	<160 M	<160 M	<16 M		
1.1.1-Trichloroethane	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<14 M		
1.1-Dichloropropene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<22 M		
Carbontetrachloride	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<28 M		
1.2-Dichloroethane	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<10 M		
Benzene	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<18 M		
Trichloroethene	<9 µg/kg	TM116		<18 M	<180 M	244 M	39.5 M		
1.2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<24 M		
Dibromomethane	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<18 M		
Bromodichloromethane	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<14 M		
cis-1-3-Dichloropropene	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<28 M		
Toluene	<5 µg/kg	TM116		17.3 M	<100 M	<100 M	<10 M		
trans-1-3-Dichloropropene	<14 µg/kg	TM116		<28	<280	<280	<28		
1.1.2-Trichloroethane	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
1.3-Dichloropropane	<7 µg/kg	TM116		<14 #	<140 #	<140 #	<14 #		
Tetrachloroethene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<10 M		
Dibromochloromethane	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<26 M		

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	CAV003	CAV003	CAV006	CAV006		
			Depth (m)	0.40	1.00	0.50	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	28/05/2012	28/05/2012	28/05/2012	28/05/2012		
			Sample Time	.	.	.	.		
			Date Received	30/05/2012	30/05/2012	30/05/2012	30/05/2012		
			SDG Ref	120530-62	120530-62	120530-62	120530-62		
			Lab Sample No.(s)	5663705	5663704	5663691	5663713		
			AGS Reference						
1.2-Dibromoethane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<24 M		
Chlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<10 M		
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
Ethylbenzene	<4 µg/kg	TM116		<8 M	<80 M	<80 M	<8 M		
p/m-Xylene	<14 µg/kg	TM116		<28 #	<280 #	<280 #	<28 #		
o-Xylene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
Styrene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
Bromoform	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
Isopropylbenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<10 M		
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<20 #		
1.2.3-Trichloropropane	<17 µg/kg	TM116		<34 M	<340 M	<340 M	<34 M		
Bromobenzene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
Propylbenzene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<22 M		
2-Chlorotoluene	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<18 M		
1.3.5-Trimethylbenzene	<8 µg/kg	TM116		<16 #	<160 #	<160 #	<16 #		
4-Chlorotoluene	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<24 M		
tert-Butylbenzene	<12 µg/kg	TM116		<24 #	<240 #	<240 #	<24 #		
1.2.4-Trimethylbenzene	<9 µg/kg	TM116		<18 #	<180 #	<180 #	<18 #		
sec-Butylbenzene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
4-Isopropyltoluene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<22 M		
1.3-Dichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<12 M		
1.4-Dichlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<10 M		
n-Butylbenzene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<20 M		
1.2-Dichlorobenzene	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<24 M		
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<28 M		
Tert-amyl methyl ether	<15 µg/kg	TM116		<30	<300	<300	<30		
1.2.4-Trichlorobenzene	<6 µg/kg	TM116		<12 #	<120 #	<120 #	<12 #		
Hexachlorobutadiene	<12 µg/kg	TM116		<24	<240	<240	<24		
Naphthalene	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<26 M		
1.2.3-Trichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<12 M		

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	5663693	5663706	5663697	5663698	5663704	5663705	5663692	5663694	5663703	5663700
Customer Sample Ref.	CAV001	CAV001	CAV002	CAV002	CAV003	CAV003	CAV004	CAV004	CAV004	CAV005
AGS Ref.										
Depth	0.90	0.40	1.00	0.40	1.00	0.40	0.10	0.70	1.40	1.40
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
EPH CWG (Aliphatic) GC (S)	07-Jun-2012	07-Jun-2012	06-Jun-2012	07-Jun-2012	06-Jun-2012	07-Jun-2012	06-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012
EPH CWG (Aromatic) GC (S)	07-Jun-2012	07-Jun-2012	06-Jun-2012	07-Jun-2012	06-Jun-2012	07-Jun-2012	06-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012
GRO by GC-FID (S)	07-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012
Metals by iCap-OES (Soil)	06-Jun-2012	06-Jun-2012	01-Jun-2012	06-Jun-2012	01-Jun-2012	06-Jun-2012	01-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012
PAH by GCMS	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012
pH	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012
Sample description	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012
Semi Volatile Organic Compounds					07-Jun-2012	07-Jun-2012				
TPH CWG GC (S)	07-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012
VOC MS (S)					06-Jun-2012	06-Jun-2012				

Lab Sample No(s)	5663701	5663710	5663691	5663713	5663708	5663711	5663696	5663702
Customer Sample Ref.	CAV005	CAV005	CAV006	CAV006	CAV007	CAV007	CAV008	CAV008
AGS Ref.								
Depth	0.30	1.00	0.50	1.50	1.50	0.50	0.30	0.60
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
EPH CWG (Aliphatic) GC (S)	07-Jun-2012	07-Jun-2012	07-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012
EPH CWG (Aromatic) GC (S)	07-Jun-2012	07-Jun-2012	07-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012
GRO by GC-FID (S)	08-Jun-2012	08-Jun-2012	08-Jun-2012	07-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	07-Jun-2012
Metals by iCap-OES (Soil)	06-Jun-2012	06-Jun-2012	06-Jun-2012	01-Jun-2012	01-Jun-2012	01-Jun-2012	01-Jun-2012	01-Jun-2012
PAH by GCMS	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012	07-Jun-2012
pH	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012	06-Jun-2012
Sample description	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012	31-May-2012
Semi Volatile Organic Compounds			07-Jun-2012	07-Jun-2012				
TPH CWG GC (S)	08-Jun-2012	08-Jun-2012	08-Jun-2012	07-Jun-2012	08-Jun-2012	08-Jun-2012	08-Jun-2012	07-Jun-2012
VOC MS (S)			06-Jun-2012	06-Jun-2012				

SDG:	120530-62	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0255
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	183510
Client Reference:	Not Specified.	**Attention:**	Alex Mann	**Superseded Report:**	

Appendix

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D&C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DCM	SOXTHERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
ELEMENTAL SULPHUR	D&C	DCM	SOXTHERM	HPLC
PHENOLS BY GCMS	WET	DCM	SOXTHERM	GC-MS
HERBICIDES	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
PESTICIDES	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (MIN OIL)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (CLEANED UP)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG BY GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB AROCLOR 1254 / PCB CON	D&C	HEXANE:ACETONE	END OVER END	GC-MS
POLYAROMATIC HYDROCARBONS (MS)	WET	HEXANE:ACETONE	MICROWAVE TM218.	GC-MS
>C6-C40	WET	HEXANE:ACETONE	SHAKER	GC-FID
POLYAROMATIC HYDROCARBONS RAPID GC	WET	HEXANE:ACETONE	SHAKER	GC-FID
SEMI VOLATILE ORGANIC COMPOUNDS	WET	DCM:ACETONE	SONICATE	GC-MS

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB AROCLOR 1254	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
SVOC	DCM	LIQUID/LIQUID SHAKE	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PESTOC PCP P	DCM	LIQUID/LIQUID SHAKE	GC MS
TRIAZINE HERBS	DCM	LIQUID/LIQUID SHAKE	GC MS
PHENOLS MS	ACETONE	SOLID PHASE EXTRACTION	GC MS
TPH by INFRARED (IR)	TCE	STIRRED EXTRACTION (STIR-BAR)	IR
MINERAL OIL by IR	TCE	STIRRED EXTRACTION (STIR-BAR)	IR
GLYCOLS	NONE	DIRECT INJECTION	GC FID

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials or those identified as potentially asbestos containing during sample description which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

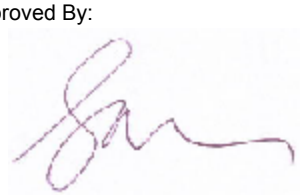
Date:	02 April 2015
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	150205-55
Your Reference:	Commercial Area Validation
Location:	Coed Darcy
Report No:	307841

We received 36 samples on Thursday February 05, 2015 and 36 of these samples were scheduled for analysis which was completed on Thursday April 02, 2015. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10782415	DAW001		0.20	02/02/2015
10782419	DAW001		1.20	02/02/2015
10782429	DAW001		2.20	02/02/2015
10782469	HAW001		0.20	02/02/2015
10782472	HAW001		0.50	02/02/2015
10782434	HAW002		0.50	02/02/2015
10782438	HAW002		1.50	02/02/2015
10782449	HAW002		2.50	02/02/2015
10782457	HAW002		3.50	02/02/2015
10782464	HAW002		4.30	02/02/2015
10782475	HAW003		0.50	02/02/2015
10782479	HAW003		1.50	02/02/2015
10782484	HAW003		2.70	02/02/2015
10782489	HAW003		3.50	02/02/2015
10782493	HAW003		4.30	02/02/2015
10782526	HAW004		0.20	02/02/2015
10782533	HAW004		0.50	02/02/2015
10782505	HAW005		0.50	02/02/2015
10782510	HAW005		1.50	02/02/2015
10782514	HAW005		2.50	02/02/2015
10782518	HAW005		3.50	02/02/2015
10782522	HAW005		4.50	02/02/2015
10782391	HAW006		0.20	02/02/2015
10782397	HAW006		1.00	02/02/2015
10782407	HAW006		1.50	02/02/2015
10782564	HAW007		0.20	02/02/2015
10782378	HAW007		1.20	02/02/2015
10782385	HAW007		2.00	02/02/2015
10782556	HAW008		0.20	02/02/2015
10782560	HAW008		0.40	02/02/2015
10782542	HAW009		0.20	02/02/2015
10782546	HAW009		1.20	02/02/2015
10782552	HAW009		2.20	02/02/2015
10782364	HAW010		0.20	02/02/2015
10782443	HAW010		1.20	02/02/2015
10782497	HAW010		2.20	02/02/2015

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
10782415	DAW001		0.20	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782419	DAW001		1.20	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782429	DAW001		2.20	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782469	HAW001		0.20	400g Tub (ALE214)
10782472	HAW001		0.50	400g Tub (ALE214)
10782434	HAW002		0.50	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782438	HAW002		1.50	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782449	HAW002		2.50	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782457	HAW002		3.50	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782464	HAW002		4.30	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782475	HAW003		0.50	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782479	HAW003		1.50	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782484	HAW003		2.70	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782489	HAW003		3.50	250g Amber Jar (AL
				400g Tub (ALE214)
				60g VOC (ALE215)
10782493	HAW003		4.30	250g Amber Jar (AL
				400g Tub (ALE214)

			10782415			10782419			10782429			10782469	10782472	10782434			10782438			10782449			10782457			10782464			10782475			10782479			10782484			10782489			10782493	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 14		X								X	X		X														X											
Asbestos Quantification - Full	All	NDPs: 0 Tests: 12		X								X	X																X											
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 30	X		X			X						X		X			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 30	X		X			X						X		X			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 30		X			X			X					X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 30	X		X			X						X		X			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 30	X		X			X						X		X			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 30		X			X			X					X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 34	X		X			X			X		X	X	X			X			X			X						X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 11							X			X					X													X												
TPH CWG GC (S)	All	NDPs: 0 Tests: 30	X		X			X						X		X			X			X			X			X			X			X			X			X	
VOC MS (S)	All	NDPs: 0 Tests: 34		X			X			X			X	X		X			X			X			X			X			X			X			X				

ALcontrol Laboratories

CERTIFICATE OF ANALYSIS

Validated

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

SOLID	Lab Sample No(s)		10782493	10782526	10782533			10782505			10782510			10782514			10782518			10782522			10782391			10782397			10782407			10782564			10782378			10782385	10782556	10782560	10782542	
	Customer Sample Reference		HAW003	HAW004	HAW004			HAW005			HAW005			HAW005			HAW005			HAW005			HAW006			HAW006			HAW006			HAW007			HAW007			HAW007	HAW008	HAW008	HAW009	
	AGS Reference																																									
	Depth (m)		4.30	0.20	0.50			0.50			1.50			2.50			3.50			4.50			0.20			1.00			1.50			0.20			1.20			2.00	0.20	0.40	0.20	
	Container		60g VOC (ALE215)	400g Tub (ALE214)	400g Tub (ALE214)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	400g Tub (ALE214)	250g Amber Jar (AL	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 14		X	X		X															X									X							X	X		X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 12		X	X		X															X									X							X	X		X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 30				X			X			X			X			X			X			X			X			X			X			X					X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 30				X			X			X			X			X			X			X			X			X			X			X					X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 30	X					X			X			X			X			X			X			X			X			X			X			X				
Metals in solid samples by OES	All	NDPs: 0 Tests: 30				X			X			X			X			X			X			X			X			X			X			X					X	
PAH by GCMS	All	NDPs: 0 Tests: 30				X			X			X			X			X			X			X			X			X			X			X					X	
pH	All	NDPs: 0 Tests: 30					X			X			X			X			X			X			X			X			X			X			X					X
Sample description	All	NDPs: 0 Tests: 34		X		X			X			X			X			X			X			X			X			X			X			X			X	X	X	
Total Organic Carbon	All	NDPs: 0 Tests: 11		X		X			X																		X						X									
TPH CWG GC (S)	All	NDPs: 0 Tests: 30				X			X			X			X			X			X			X			X			X			X			X					X	
VOC MS (S)	All	NDPs: 0 Tests: 34	X					X			X			X			X			X			X			X			X			X			X			X	X	X		

17:09:31 02/04/2015

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			10782542			10782546			10782552			10782364			10782443			10782497
Customer Sample Reference			HAW009			HAW009			HAW009			HAW010			HAW010			HAW010
AGS Reference																		
Depth (m)			0.20			1.20			2.20			0.20			1.20			2.20
Container			60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 14									X							
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 30		X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 30		X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 30	X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 30		X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 30		X			X			X			X			X		
pH	All	NDPs: 0 Tests: 30			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 34		X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 11					X			X								
TPH CWG GC (S)	All	NDPs: 0 Tests: 30		X			X			X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 34	X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
10782415	DAW001	0.20	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
10782419	DAW001	1.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
10782429	DAW001	2.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
10782469	HAW001	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10782472	HAW001	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10782434	HAW002	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10782438	HAW002	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Concrete/Aggregate
10782449	HAW002	2.50	Dark Brown	Sand	0.1 - 2 mm	Brick	Stones
10782457	HAW002	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
10782464	HAW002	4.30	Grey	Stone/Soil	2 - 10 mm	Stones	None
10782475	HAW003	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10782479	HAW003	1.50	Dark Brown	Sand	0.1 - 2 mm	Concrete/Aggregate	Stones
10782484	HAW003	2.70	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10782489	HAW003	3.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
10782493	HAW003	4.30	Dark Brown	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
10782526	HAW004	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
10782533	HAW004	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10782505	HAW005	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10782510	HAW005	1.50	Dark Brown	Silty Clay Loam	0.1 - 2 mm	Stones	Brick
10782514	HAW005	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10782518	HAW005	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
10782522	HAW005	4.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Tile/Insulation Board
10782391	HAW006	0.20	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
10782397	HAW006	1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
10782407	HAW006	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
10782378	HAW007	1.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10782385	HAW007	2.00	Grey	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
10782564	HAW007	0.20	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
10782556	HAW008	0.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Brick
10782560	HAW008	0.40	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
10782542	HAW009	0.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10782546	HAW009	1.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
10782552	HAW009	2.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
10782364	HAW010	0.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10782443	HAW010	1.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10782497	HAW010	2.20	Grey	Sandy Loam	0.1 - 2 mm	Stones	None

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	DAW001	DAW001	DAW001	HAW001	HAW001	HAW002
			Depth (m)	0.20	1.20	2.20	0.20	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782415	10782419	10782429	10782469	10782472	10782434
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		19	11	10	7.8	9.6	7.5
Soil Organic Matter (SOM)	<0.35 %	TM132				1.63 #	3.03 #		
pH	1 pH Units	TM133		8.33 M	9.91 M	7.9 M			9.29 M
Arsenic	<0.6 mg/kg	TM181		37.5 M	37.9 M	10.5 M			28.4 M
Cadmium	<0.02 mg/kg	TM181		1.03 M	0.435 M	0.258 M			0.619 M
Chromium	<0.9 mg/kg	TM181		18.8 M	17 M	15.3 M			8.75 M
Copper	<1.4 mg/kg	TM181		87.5 M	65.5 M	24.7 M			66.1 M
Lead	<0.7 mg/kg	TM181		147 M	71.2 M	26.8 M			109 M
Mercury	<0.14 mg/kg	TM181		0.179 M	<0.14 M	1.15 M			0.549 M
Nickel	<0.2 mg/kg	TM181		23.8 M	37.4 M	29.3 M			8.54 M
Selenium	<1 mg/kg	TM181		<1 #	1.24 #	1.17 #			<1 #
Vanadium	<0.2 mg/kg	TM181		22 #	33.9 #	19.4 #			10.9 #
Zinc	<1.9 mg/kg	TM181		297 M	222 M	139 M			324 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW002	HAW002	HAW002	HAW002	HAW003	HAW003
			Depth (m)	1.50	2.50	3.50	4.30	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782438	10782449	10782457	10782464	10782475	10782479
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	11	13	13	9.3	13
Soil Organic Matter (SOM)	<0.35 %	TM132		10.6 #				4.36 #	
pH	1 pH Units	TM133		8.19 M	8.2 M	8.4 M	8.26 #	8.82 M	8.14 M
Arsenic	<0.6 mg/kg	TM181		152 M	130 M	221 M	314 #	214 M	21.9 M
Cadmium	<0.02 mg/kg	TM181		2.47 M	2.56 M	2.99 M	2.22 #	1.84 M	1.09 M
Chromium	<0.9 mg/kg	TM181		23.3 M	19.4 M	17.8 M	19.3 #	21.6 M	23.3 M
Copper	<1.4 mg/kg	TM181		580 M	613 M	5370 M	1350 #	782 M	98.7 M
Lead	<0.7 mg/kg	TM181		1520 M	833 M	960 M	1540 #	1260 M	75.9 M
Mercury	<0.14 mg/kg	TM181		0.951 M	0.543 M	0.235 M	<0.14 #	0.352 M	1.16 M
Nickel	<0.2 mg/kg	TM181		35.4 M	28.2 M	36.4 M	38.5 #	33.2 M	27.3 M
Selenium	<1 mg/kg	TM181		2.05 #	<1 #	2.37 #	1.13 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		31.4 #	26.1 #	28.8 #	31.7 #	24.9 #	42.7 #
Zinc	<1.9 mg/kg	TM181		1820 M	2070 M	3290 M	4980 #	2890 M	222 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW003	HAW003	HAW003	HAW004	HAW004	HAW005
			Depth (m)	2.70	3.50	4.30	0.20	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782484	10782489	10782493	10782526	10782533	10782505
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	16	7.6	11	12	11
Soil Organic Matter (SOM)	<0.35 %	TM132					10.5 #		5.93 #
pH	1 pH Units	TM133		8.15 M	7.28 M	8.38 M			8.84 M
Arsenic	<0.6 mg/kg	TM181		10.5 M	1.43 M	46.6 M			387 M
Cadmium	<0.02 mg/kg	TM181		0.327 M	0.125 M	0.681 M			4.35 M
Chromium	<0.9 mg/kg	TM181		16.3 M	17.3 M	17.2 M			28.7 M
Copper	<1.4 mg/kg	TM181		50.5 M	9.18 M	245 M			2410 M
Lead	<0.7 mg/kg	TM181		63.8 M	14.1 M	183 M			3900 M
Mercury	<0.14 mg/kg	TM181		0.227 M	<0.14 M	0.31 M			<0.14 M
Nickel	<0.2 mg/kg	TM181		30.5 M	26 M	30.5 M			50 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.13 #			1.37 #
Vanadium	<0.2 mg/kg	TM181		16.3 #	15.9 #	20 #			34.7 #
Zinc	<1.9 mg/kg	TM181		279 M	44.4 M	560 M			7440 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW005	HAW005	HAW005	HAW005	HAW006	HAW006
			Depth (m)	1.50	2.50	3.50	4.50	0.20	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782510	10782514	10782518	10782522	10782391	10782397
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		10	11	11	12	8.8	12
Soil Organic Matter (SOM)	<0.35 %	TM132		2.03 #					
pH	1 pH Units	TM133		8.57 M	8.23 M	8.39 M	8.11 M	8.4 M	7.66 M
Arsenic	<0.6 mg/kg	TM181		14 M	36 M	103 M	76.1 M	35.1 M	23 M
Cadmium	<0.02 mg/kg	TM181		0.599 M	1.65 M	2.45 M	1.87 M	0.708 M	0.539 M
Chromium	<0.9 mg/kg	TM181		18.4 M	23.4 M	21.9 M	28.9 M	12.4 M	13.6 M
Copper	<1.4 mg/kg	TM181		47.1 M	185 M	544 M	411 M	89.9 M	82.2 M
Lead	<0.7 mg/kg	TM181		40.4 M	864 M	563 M	536 M	223 M	598 M
Mercury	<0.14 mg/kg	TM181		1.11 M	0.564 M	0.619 M	0.695 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		26.7 M	27.9 M	39.2 M	31.4 M	21.7 M	27.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.26 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		25.4 #	40.7 #	28.8 #	25.9 #	13.5 #	21.6 #
Zinc	<1.9 mg/kg	TM181		133 M	974 M	1410 M	1210 M	616 M	251 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW006	HAW007	HAW007	HAW007	HAW008	HAW008
			Depth (m)	1.50	0.20	1.20	2.00	0.20	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782407	10782564	10782378	10782385	10782556	10782560
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	5.6	13	20	9.6	8.3
Soil Organic Matter (SOM)	<0.35 %	TM132		3.52 #		5.95 #			
pH	1 pH Units	TM133		7.46 M	9.37 M	8.05 M	7.7 M		
Arsenic	<0.6 mg/kg	TM181		19.5 M	16.1 M	21 M	18.6 M		
Cadmium	<0.02 mg/kg	TM181		0.403 M	0.47 M	0.452 M	0.387 M		
Chromium	<0.9 mg/kg	TM181		13.8 M	11.2 M	17 M	15.4 M		
Copper	<1.4 mg/kg	TM181		53.6 M	58.5 M	72.5 M	61.3 M		
Lead	<0.7 mg/kg	TM181		45.5 M	87.9 M	68.4 M	65.3 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.35 M	<0.14 M	<0.14 M		
Nickel	<0.2 mg/kg	TM181		26.7 M	10.2 M	22.4 M	22.3 M		
Selenium	<1 mg/kg	TM181		1.1 #	<1 #	<1 #	1.07 #		
Vanadium	<0.2 mg/kg	TM181		16 #	13.9 #	28.4 #	24.5 #		
Zinc	<1.9 mg/kg	TM181		146 M	278 M	199 M	149 M		

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW009	HAW009	HAW009	HAW010	HAW010	HAW010
			Depth (m)	0.20	1.20	2.20	0.20	1.20	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782542	10782546	10782552	10782364	10782443	10782497
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	16	16	6.7	15	17
Soil Organic Matter (SOM)	<0.35 %	TM132				2.36 #	9.84 #		
pH	1 pH Units	TM133		8.75 M	8.17 M	7.05 M	8.27 M	8.21 M	7.56 M
Arsenic	<0.6 mg/kg	TM181		40.8 M	53.1 M	10.4 M	16.2 M	59 M	43.3 M
Cadmium	<0.02 mg/kg	TM181		0.729 M	1.42 M	0.245 M	0.593 M	0.89 M	0.763 M
Chromium	<0.9 mg/kg	TM181		19.5 M	28.2 M	13.3 M	15.4 M	13.2 M	15.6 M
Copper	<1.4 mg/kg	TM181		132 M	256 M	21.6 M	76.2 M	196 M	175 M
Lead	<0.7 mg/kg	TM181		133 M	152 M	26.9 M	66.1 M	178 M	251 M
Mercury	<0.14 mg/kg	TM181		0.228 M	0.467 M	<0.14 M	0.348 M	0.579 M	1.2 M
Nickel	<0.2 mg/kg	TM181		19.6 M	41.3 M	18.5 M	21.5 M	22.2 M	27 M
Selenium	<1 mg/kg	TM181		<1 #	1.23 #	1.1 #	<1 #	<1 #	1.22 #
Vanadium	<0.2 mg/kg	TM181		29.9 #	43.4 #	15.2 #	28 #	22.7 #	23.4 #
Zinc	<1.9 mg/kg	TM181		621 M	513 M	87.7 M	203 M	2320 M	829 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
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aq	Aqueous / settled sample.
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**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	DAW001	DAW001	DAW001	HAW002	HAW002	HAW002
			Depth (m)	0.20	1.20	2.20	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782415	10782419	10782429	10782434	10782438	10782449
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		101	96.6	90.9	100	102	103
Acenaphthene-d10 % recovery**	%	TM218		101	96.6	92.7	99.2	103	103
Phenanthrene-d10 % recovery**	%	TM218		100	94.2	92.1	96.8	99.8	100
Chrysene-d12 % recovery**	%	TM218		97.9	88.3	93.7	88.4	96.5	93.6
Perylene-d12 % recovery**	%	TM218		102	90.4	97.9	83.2	91.6	87.3
Naphthalene	<9 µg/kg	TM218		110 M	135 M	14.2 M	49.9 M	220 M	97.8 M
Acenaphthylene	<12 µg/kg	TM218		27.8 M	39.8 M	<12 M	29.8 M	62.5 M	38.7 M
Acenaphthene	<8 µg/kg	TM218		42.9 M	98.6 M	<8 M	36 M	378 M	74 M
Fluorene	<10 µg/kg	TM218		31.7 M	156 M	<10 M	38.6 M	527 M	111 M
Phenanthrene	<15 µg/kg	TM218		575 M	617 M	74.6 M	299 M	1680 M	533 M
Anthracene	<16 µg/kg	TM218		108 M	203 M	19.2 M	89.5 M	459 M	157 M
Fluoranthene	<17 µg/kg	TM218		1050 M	761 M	68.1 M	802 M	1760 M	898 M
Pyrene	<15 µg/kg	TM218		860 M	806 M	66.7 M	693 M	1900 M	776 M
Benz(a)anthracene	<14 µg/kg	TM218		649 M	450 M	38.7 M	516 M	907 M	423 M
Chrysene	<10 µg/kg	TM218		728 M	530 M	62.4 M	629 M	1100 M	556 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		925 M	796 M	75.9 M	939 M	1160 M	572 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		436 M	241 M	16.6 M	401 M	468 M	291 M
Benzo(a)pyrene	<15 µg/kg	TM218		697 M	470 M	31.9 M	660 M	871 M	426 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		504 M	297 M	23.9 M	494 M	494 M	287 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		190 M	113 M	<23 M	187 M	205 M	106 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		610 M	374 M	<24 M	623 M	662 M	351 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		7550	6090	492	6490	12900	5700

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
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(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW002	HAW002	HAW003	HAW003	HAW003	HAW003
			Depth (m)	3.50	4.30	0.50	1.50	2.70	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782457	10782464	10782475	10782479	10782484	10782489
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		95.2	99.5	96.1	98.4	102	99.7
Acenaphthene-d10 % recovery**	%	TM218		96.8	98.6	95.4	97.9	104	100
Phenanthrene-d10 % recovery**	%	TM218		94	96.9	94.9	98.2	102	98.1
Chrysene-d12 % recovery**	%	TM218		83.2	91.7	89.8	94	99.5	88.6
Perylene-d12 % recovery**	%	TM218		93.3	94.2	92.3	96.3	103	94
Naphthalene	<9 µg/kg	TM218		220 M	263 #	73 M	99.6 M	558 M	205 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 #	27.6 M	154 M	<12 M	24.4 M
Acenaphthene	<8 µg/kg	TM218		<8 M	104 #	22 M	90.4 M	172 M	81.8 M
Fluorene	<10 µg/kg	TM218		146 M	536 #	40.6 M	644 M	538 M	225 M
Phenanthrene	<15 µg/kg	TM218		517 M	1370 #	288 M	1860 M	889 M	204 M
Anthracene	<16 µg/kg	TM218		118 M	229 #	78.9 M	4000 M	115 M	<16 M
Fluoranthene	<17 µg/kg	TM218		323 M	373 #	715 M	2700 M	150 M	<17 M
Pyrene	<15 µg/kg	TM218		346 M	562 #	676 M	1740 M	180 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		204 M	213 #	435 M	1480 M	98.6 M	<14 M
Chrysene	<10 µg/kg	TM218		221 M	209 #	576 M	2670 M	122 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		344 M	294 #	676 M	1100 M	134 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		124 M	118 #	220 M	559 M	52.3 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		208 M	210 #	384 M	890 M	96 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		125 M	133 #	225 M	503 M	58.1 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		47.6 M	54.1 #	95.4 M	256 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		161 M	168 #	288 M	528 M	77 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		3100	4830	4820	19300	3240	741

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
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1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW003	HAW005	HAW005	HAW005	HAW005	HAW005
			Depth (m)	4.30	0.50	1.50	2.50	3.50	4.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782493	10782505	10782510	10782514	10782518	10782522
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.8	99	99	99.7	102	102
Acenaphthene-d10 % recovery**	%	TM218		99	101	101	101	103	105
Phenanthrene-d10 % recovery**	%	TM218		98.6	99.3	99.9	98.4	100	104
Chrysene-d12 % recovery**	%	TM218		95	92.3	99.9	90.6	91.4	102
Perylene-d12 % recovery**	%	TM218		96.3	103	105	98.8	102	106
Naphthalene	<9 µg/kg	TM218		360 M	82.3 M	86.1 M	200 M	185 M	196 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	35.1 M	27.7 M	39.9 M	51.9 M	65.2 M
Acenaphthene	<8 µg/kg	TM218		225 M	76 M	69.3 M	110 M	114 M	115 M
Fluorene	<10 µg/kg	TM218		563 M	72.8 M	117 M	114 M	209 M	242 M
Phenanthrene	<15 µg/kg	TM218		1630 M	480 M	492 M	689 M	817 M	936 M
Anthracene	<16 µg/kg	TM218		295 M	155 M	113 M	179 M	204 M	254 M
Fluoranthene	<17 µg/kg	TM218		340 M	1110 M	549 M	956 M	1200 M	978 M
Pyrene	<15 µg/kg	TM218		590 M	929 M	580 M	803 M	1060 M	928 M
Benz(a)anthracene	<14 µg/kg	TM218		199 M	922 M	385 M	526 M	626 M	730 M
Chrysene	<10 µg/kg	TM218		313 M	857 M	508 M	537 M	646 M	725 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		299 M	1300 M	655 M	801 M	792 M	1040 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		95.6 M	544 M	226 M	287 M	306 M	393 M
Benzo(a)pyrene	<15 µg/kg	TM218		169 M	1040 M	460 M	607 M	601 M	677 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		105 M	610 M	278 M	361 M	318 M	369 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		43.4 M	255 M	118 M	124 M	114 M	151 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		132 M	704 M	354 M	431 M	377 M	431 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		5360	9170	5020	6760	7620	8230

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW006	HAW006	HAW006	HAW007	HAW007	HAW007
			Depth (m)	0.20	1.00	1.50	0.20	1.20	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782391	10782397	10782407	10782564	10782378	10782385
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97	95	97.6	98.1	91.2	88
Acenaphthene-d10 % recovery**	%	TM218		97.6	95.1	98.4	99	93.7	87.7
Phenanthrene-d10 % recovery**	%	TM218		96.7	95	96.9	98.2	93.9	85
Chrysene-d12 % recovery**	%	TM218		94	89.7	91.7	96.8	83.9	77.1
Perylene-d12 % recovery**	%	TM218		97.6	88.8	89.8	102	83.8	74.9
Naphthalene	<9 µg/kg	TM218		66.2 M	244 M	223 M	89.8 M	337 M	639 M
Acenaphthylene	<12 µg/kg	TM218		21.6 M	<12 M	<12 M	47.2 M	<120 M	<12 M
Acenaphthene	<8 µg/kg	TM218		26.6 M	370 M	428 M	73.1 M	493 M	963 M
Fluorene	<10 µg/kg	TM218		42 M	1200 M	339 M	94 M	942 M	1890 M
Phenanthrene	<15 µg/kg	TM218		458 M	3460 M	1220 M	568 M	2420 M	3190 M
Anthracene	<16 µg/kg	TM218		97.3 M	662 M	525 M	215 M	586 M	1620 M
Fluoranthene	<17 µg/kg	TM218		799 M	630 M	504 M	1780 M	972 M	1210 M
Pyrene	<15 µg/kg	TM218		646 M	1380 M	1320 M	1410 M	1400 M	3150 M
Benz(a)anthracene	<14 µg/kg	TM218		648 M	281 M	286 M	1580 M	602 M	715 M
Chrysene	<10 µg/kg	TM218		652 M	340 M	352 M	1360 M	615 M	752 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		966 M	343 M	398 M	2670 M	749 M	698 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		363 M	120 M	116 M	936 M	238 M	219 M
Benzo(a)pyrene	<15 µg/kg	TM218		653 M	196 M	211 M	1800 M	442 M	412 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		426 M	118 M	115 M	1100 M	265 M	206 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		187 M	53.5 M	53.8 M	460 M	<230 M	97.9 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		490 M	156 M	152 M	1210 M	349 M	256 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		6540	9550	6240	15400	10400	16000

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW009	HAW009	HAW009	HAW010	HAW010	HAW010
			Depth (m)	0.20	1.20	2.20	0.20	1.20	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782542	10782546	10782552	10782364	10782443	10782497
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.6	121	104	92.1	103	97.4
Acenaphthene-d10 % recovery**	%	TM218		99.6	116	102	89.6	95.6	99.9
Phenanthrene-d10 % recovery**	%	TM218		97.4	114	97.6	87.4	94.5	94.5
Chrysene-d12 % recovery**	%	TM218		90.4	104	94.4	81.9	93.7	81.8
Perylene-d12 % recovery**	%	TM218		99.3	104	94.3	91.4	97	93.4
Naphthalene	<9 µg/kg	TM218		116 M	238 M	323 M	311 M	506 M	363 M
Acenaphthylene	<12 µg/kg	TM218		59.8 M	94.1 M	<12 M	251 M	128 M	<12 M
Acenaphthene	<8 µg/kg	TM218		62.8 M	149 M	280 M	836 M	333 M	303 M
Fluorene	<10 µg/kg	TM218		64.2 M	149 M	777 M	707 M	732 M	1020 M
Phenanthrene	<15 µg/kg	TM218		573 M	798 M	1780 M	3840 M	1140 M	1490 M
Anthracene	<16 µg/kg	TM218		141 M	299 M	396 M	1790 M	447 M	486 M
Fluoranthene	<17 µg/kg	TM218		1110 M	1030 M	445 M	18200 M	1170 M	3060 M
Pyrene	<15 µg/kg	TM218		955 M	852 M	517 M	14400 M	1070 M	2270 M
Benz(a)anthracene	<14 µg/kg	TM218		695 M	476 M	188 M	15000 M	495 M	966 M
Chrysene	<10 µg/kg	TM218		716 M	542 M	196 M	14700 M	616 M	884 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1080 M	725 M	272 M	26700 M	719 M	1280 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		356 M	261 M	88.1 M	7710 M	331 M	412 M
Benzo(a)pyrene	<15 µg/kg	TM218		903 M	577 M	150 M	15600 M	581 M	632 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		553 M	321 M	78.5 M	8660 M	357 M	348 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		190 M	119 M	40.2 M	3580 M	145 M	125 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		671 M	384 M	96.8 M	9260 M	482 M	432 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		8250	7020	5630	142000	9250	14100

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	DAW001	DAW001	DAW001	HAW002	HAW002	HAW002
			Depth (m)	0.20	1.20	2.20	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782415	10782419	10782429	10782434	10782438	10782449
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		90	72	96	77	96	95
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	3400 M	<176 M	1500 M	12300 M	3140 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	82.9	<40	51.9	345	121
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	463	<40	93	2480	523
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	1510	42.2	766	4670	1270
Aliphatics >C12-C16	<100 µg/kg	TM173		7560	87800	19000	945	150000	42600
Aliphatics >C16-C21	<100 µg/kg	TM173		88300	157000	47200	16700	194000	83600
Aliphatics >C21-C35	<100 µg/kg	TM173		282000	512000	170000	92800	773000	254000
Aliphatics >C35-C44	<100 µg/kg	TM173		239000	184000	63700	39800	261000	75700
Total Aliphatics >C12-C44	<100 µg/kg	TM173		616000	941000	300000	150000	1380000	456000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	312	<40	65.9	1650	349
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	1010	<40	511	3110	845
Aromatics >EC12-EC16	<100 µg/kg	TM173		1330	8650	1470	601	29500	4490
Aromatics >EC16-EC21	<100 µg/kg	TM173		28800	42100	11800	6320	81500	23800
Aromatics >EC21-EC35	<100 µg/kg	TM173		212000	234000	92800	79800	278000	134000
Aromatics >EC35-EC44	<100 µg/kg	TM173		112000	118000	34600	60400	157000	70900
Aromatics >EC40-EC44	<100 µg/kg	TM173		48700	47600	13700	26200	64600	30200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		355000	402000	141000	147000	546000	233000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		971000	1350000	441000	299000	1940000	692000

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW002	HAW002	HAW003	HAW003	HAW003	HAW003
			Depth (m)	3.50	4.30	0.50	1.50	2.70	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782457	10782464	10782475	10782479	10782484	10782489
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		75	87	86	86	93	109
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		12200 M	73000 #	<176 M	7540 M	7730 M	4960 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 #	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 #	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 #	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 #	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 #	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 #	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	388	<40	<40	85.8	69.6
Aliphatics >C6-C8	<10 µg/kg	TM089		622	7930	<40	93.5	774	291
Aliphatics >C8-C10	<10 µg/kg	TM089		2140	15500	<40	917	1530	706
Aliphatics >C10-C12	<10 µg/kg	TM089		4770	23300	<40	3540	2590	2050
Aliphatics >C12-C16	<100 µg/kg	TM173		144000	189000	9580	98200	32300	4570
Aliphatics >C16-C21	<100 µg/kg	TM173		227000	181000	33300	60000	31800	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		281000	172000	119000	175000	56500	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		58200	34900	34700	63000	12300	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		711000	577000	196000	396000	133000	4570
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		1430	10300	<40	611	1020	471
Aromatics >EC10-EC12	<10 µg/kg	TM089		3180	15500	<40	2360	1730	1370
Aromatics >EC12-EC16	<100 µg/kg	TM173		22800	44900	1280	6940	14400	16800
Aromatics >EC16-EC21	<100 µg/kg	TM173		72900	67900	7210	15800	14000	2150
Aromatics >EC21-EC35	<100 µg/kg	TM173		166000	99100	74000	77700	31400	7190
Aromatics >EC35-EC44	<100 µg/kg	TM173		64700	36900	45700	51400	13000	3100
Aromatics >EC40-EC44	<100 µg/kg	TM173		28100	16000	20400	22400	5700	863
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		326000	249000	128000	152000	72700	29300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1050000	899000	325000	555000	213000	38800

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW003	HAW005	HAW005	HAW005	HAW005	HAW005
			Depth (m)	4.30	0.50	1.50	2.50	3.50	4.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782493	10782505	10782510	10782514	10782518	10782522
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		72	78	92	82	76	104
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		38000 M	<176 M	3700 M	1440 M	80700 M	111000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<100 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<200 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	8.88 M	<8 M	<8 M	<40 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<60 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<120 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<60 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		95.2	<40	<40	<40	<40	<200
Aliphatics >C6-C8	<10 µg/kg	TM089		714	<40	89.9	85.9	427	768
Aliphatics >C8-C10	<10 µg/kg	TM089		5360	<40	476	281	16100	19600
Aliphatics >C10-C12	<10 µg/kg	TM089		17000	<40	1670	520	32100	46400
Aliphatics >C12-C16	<100 µg/kg	TM173		96100	7420	71500	43600	230000	268000
Aliphatics >C16-C21	<100 µg/kg	TM173		56200	35500	47100	70600	74300	94900
Aliphatics >C21-C35	<100 µg/kg	TM173		95300	83600	129000	166000	114000	148000
Aliphatics >C35-C44	<100 µg/kg	TM173		21900	35400	51800	40200	12700	32200
Total Aliphatics >C12-C44	<100 µg/kg	TM173		269000	162000	299000	321000	430000	543000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<200
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<200
Aromatics >EC8-EC10	<10 µg/kg	TM089		3570	<40	321	190	10700	13000
Aromatics >EC10-EC12	<10 µg/kg	TM089		11300	<40	1110	347	21400	30900
Aromatics >EC12-EC16	<100 µg/kg	TM173		29400	1280	5520	9220	21100	20400
Aromatics >EC16-EC21	<100 µg/kg	TM173		32300	10700	14300	26800	32700	39400
Aromatics >EC21-EC35	<100 µg/kg	TM173		69400	131000	70900	80600	88200	108000
Aromatics >EC35-EC44	<100 µg/kg	TM173		28500	79500	51500	44900	36000	42100
Aromatics >EC40-EC44	<100 µg/kg	TM173		11600	37400	24100	21300	15700	18200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		160000	222000	142000	162000	178000	210000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		467000	384000	445000	484000	689000	863000

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW006	HAW006	HAW006	HAW007	HAW007	HAW007
			Depth (m)	0.20	1.00	1.50	0.20	1.20	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782391	10782397	10782407	10782564	10782378	10782385
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		85	69	84	94	50	88
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	51200 M	21300 M	461 M	16900 M	134000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	137	<40	<40	<40	51.3
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	4950	398	<40	173	2370
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	12500	3490	76.2	2360	22600
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	15200	9050	169	7640	56200
Aliphatics >C12-C16	<100 µg/kg	TM173		5510	268000	683000	<100	351000	1290000
Aliphatics >C16-C21	<100 µg/kg	TM173		17000	201000	350000	9780	195000	496000
Aliphatics >C21-C35	<100 µg/kg	TM173		109000	2310000	2130000	92600	1110000	1240000
Aliphatics >C35-C44	<100 µg/kg	TM173		42600	806000	589000	64600	397000	413000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		174000	3590000	3750000	167000	2050000	3440000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	8310	2330	53	1580	15100
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	10100	6040	113	5090	37500
Aromatics >EC12-EC16	<100 µg/kg	TM173		1210	58100	53400	1710	49300	209000
Aromatics >EC16-EC21	<100 µg/kg	TM173		7720	90700	173000	13500	89800	335000
Aromatics >EC21-EC35	<100 µg/kg	TM173		59700	406000	520000	124000	296000	417000
Aromatics >EC35-EC44	<100 µg/kg	TM173		33400	218000	233000	99000	161000	160000
Aromatics >EC40-EC44	<100 µg/kg	TM173		14500	90900	89900	47300	66000	65400
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		102000	772000	979000	238000	596000	1120000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		276000	4410000	4750000	406000	2660000	4690000

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW009	HAW009	HAW009	HAW010	HAW010	HAW010
			Depth (m)	0.20	1.20	2.20	0.20	1.20	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782542	10782546	10782552	10782364	10782443	10782497
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		115	59	76	76	67	69
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	14800 M	40100 M	<176 M	40000 M	73100 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	73.8	543	<40	228	526
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	520	4600	<40	4030	7110
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	8320	19100	<40	19800	36400
Aliphatics >C12-C16	<100 µg/kg	TM173		6480	373000	1260000	8820	1490000	913000
Aliphatics >C16-C21	<100 µg/kg	TM173		12200	173000	1360000	34400	728000	560000
Aliphatics >C21-C35	<100 µg/kg	TM173		60900	356000	2780000	680000	517000	243000
Aliphatics >C35-C44	<100 µg/kg	TM173		26900	119000	1160000	521000	388000	84200
Total Aliphatics >C12-C44	<100 µg/kg	TM173		106000	1020000	6550000	1240000	3120000	1800000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	352	3070	<40	2690	4740
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	5550	12700	<40	13200	24300
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	8200	113000	4980	102000	70800
Aromatics >EC16-EC21	<100 µg/kg	TM173		4050	47700	325000	79900	154000	139000
Aromatics >EC21-EC35	<100 µg/kg	TM173		41600	133000	577000	866000	368000	158000
Aromatics >EC35-EC44	<100 µg/kg	TM173		35100	78800	224000	620000	395000	79000
Aromatics >EC40-EC44	<100 µg/kg	TM173		17100	37300	86700	263000	178000	32700
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		80700	268000	1240000	1570000	1020000	447000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		187000	1300000	7830000	2820000	4180000	2320000

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	DAW001	DAW001	DAW001	HAW001	HAW001	HAW002
			Depth (m)	0.20	1.20	2.20	0.20	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782415	10782419	10782429	10782469	10782472	10782434
			AGS Reference						
Dibromofluoromethane**	%	TM116		123	120	109	129 2	120 2	103
Toluene-d8**	%	TM116		101	97.5	89.9	101 2	98.9 2	98.1
4-Bromofluorobenzene**	%	TM116		84.9	76.7	74.6	86.4 2	81.6 2	95.2
Dichlorodifluoromethane	<6 µg/kg	TM116		<60 M	<60 M	<6 M	<60 2 M	<60 2 M	<60 M
Chloromethane	<7 µg/kg	TM116		<70 #	<70 #	<7 #	<70 2 #	<70 2 #	<70 #
Vinyl Chloride	<6 µg/kg	TM116		<60 M	<60 M	<6 M	<60 2 M	<60 2 M	<60 M
Bromomethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Chloroethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Trichlorofluorormethane	<6 µg/kg	TM116		<60 M	<60 M	<6 M	<60 2 M	<60 2 M	<60 M
1,1-Dichloroethene	<10 µg/kg	TM116		<100 #	<100 #	<10 #	<100 2 #	<100 2 #	<100 #
Carbon Disulphide	<7 µg/kg	TM116		<70 M	<70 M	<7 M	<70 2 M	<70 2 M	<70 M
Dichloromethane	<10 µg/kg	TM116		<100 #	<100 #	<10 #	<100 2 #	<100 2 #	<100 #
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
trans-1,2-Dichloroethene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
1,1-Dichloroethane	<8 µg/kg	TM116		<80 M	<80 M	<8 M	<80 2 M	<80 2 M	<80 M
cis-1,2-Dichloroethene	<6 µg/kg	TM116		<60 M	<60 M	<6 M	<60 2 M	<60 2 M	<60 M
2,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Bromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Chloroform	<8 µg/kg	TM116		<80 M	<80 M	<8 M	<80 2 M	<80 2 M	<80 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<70 M	<70 M	<7 M	<70 2 M	<70 2 M	<70 M
1,1-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Carbontetrachloride	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
1,2-Dichloroethane	<5 µg/kg	TM116		<50 M	<50 M	<5 M	<50 2 M	<50 2 M	<50 M
Benzene	<9 µg/kg	TM116		<90 M	<90 M	<9 M	<90 2 M	<90 2 M	<90 M
Trichloroethene	<9 µg/kg	TM116		<90 #	<90 #	<9 #	<90 2 #	<90 2 #	<90 #
1,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Dibromomethane	<9 µg/kg	TM116		<90 M	<90 M	<9 M	<90 2 M	<90 2 M	<90 M
Bromodichloromethane	<7 µg/kg	TM116		<70 M	<70 M	<7 M	<70 2 M	<70 2 M	<70 M
cis-1,3-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Toluene	<7 µg/kg	TM116		<70 M	<70 M	<7 M	<70 2 M	<70 2 M	<70 M
trans-1,3-Dichloropropene	<10 µg/kg	TM116		<100	<100	<10	<100 2	<100 2	<100
1,1,2-Trichloroethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	DAW001	DAW001	DAW001	HAW001	HAW001	HAW002
			Depth (m)	0.20	1.20	2.20	0.20	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782415	10782419	10782429	10782469	10782472	10782434
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<70 M	<70 M	<7 M	<70 2 M	<70 2 M	<70 M
Tetrachloroethene	<5 µg/kg	TM116		<50 M	<50 M	<5 M	<50 2 M	<50 2 M	<50 M
Dibromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
1,2-Dibromoethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Chlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<5 M	<50 2 M	<50 2 M	<50 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Ethylbenzene	<4 µg/kg	TM116		<40 M	<40 M	<4 M	<40 2 M	<40 2 M	<40 M
p/m-Xylene	<10 µg/kg	TM116		<100 #	<100 #	<10 #	<100 2 #	<100 2 #	<100 #
o-Xylene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Styrene	<10 µg/kg	TM116		<100 #	<100 #	<10 #	<100 2 #	<100 2 #	<100 #
Bromoform	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Isopropylbenzene	<5 µg/kg	TM116		<50 #	<50 #	<5 #	<50 2 #	<50 2 #	<50 #
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
1,2,3-Trichloropropane	<16 µg/kg	TM116		<160 M	<160 M	<16 M	<160 2 M	<160 2 M	<160 M
Bromobenzene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
Propylbenzene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
2-Chlorotoluene	<9 µg/kg	TM116		<90 M	<90 M	<9 M	<90 2 M	<90 2 M	<90 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<80 M	<80 M	<8 M	<80 2 M	<80 2 M	<80 M
4-Chlorotoluene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
tert-Butylbenzene	<14 µg/kg	TM116		<140 M	<140 M	<14 M	<140 2 M	<140 2 M	<140 M
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<90 #	<90 #	<9 #	<90 2 #	<90 2 #	<90 #
sec-Butylbenzene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
4-Isopropyltoluene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
1,3-Dichlorobenzene	<8 µg/kg	TM116		<80 M	<80 M	<8 M	<80 2 M	<80 2 M	<80 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<5 M	<50 2 M	<50 2 M	<50 M
n-Butylbenzene	<11 µg/kg	TM116		<110	<110	<11	<110 2	<110 2	<110
1,2-Dichlorobenzene	<10 µg/kg	TM116		<100 M	<100 M	<10 M	<100 2 M	<100 2 M	<100 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<140 M	<140 M	<14 M	<140 2 M	<140 2 M	<140 M
Tert-amyl methyl ether	<10 µg/kg	TM116		<100 #	<100 #	<10 #	<100 2 #	<100 2 #	<100 #
1,2,4-Trichlorobenzene	<20 µg/kg	TM116		<200	<200	<20	<200 2	<200 2	<200
Hexachlorobutadiene	<20 µg/kg	TM116		<200	<200	<20	<200 2	<200 2	<200
Naphthalene	<13 µg/kg	TM116		<130 M	<130 M	<13 M	<130 2 M	<130 2 M	<130 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	DAW001	DAW001	DAW001	HAW001	HAW001	HAW002
			Depth (m)	0.20	1.20	2.20	0.20	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782415	10782419	10782429	10782469	10782472	10782434
			AGS Reference						
1,2,3-Trichlorobenzene	<20 µg/kg	TM116		<200 #	<200 #	<20 #	<200 2 #	<200 2 #	<200 #

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW002	HAW002	HAW002	HAW002	HAW003	HAW003
			Depth (m)	1.50	2.50	3.50	4.30	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782438	10782449	10782457	10782464	10782475	10782479
			AGS Reference						
Dibromofluoromethane**	%	TM116		117	115	118	120	102	120
Toluene-d8**	%	TM116		96.9	99.5	99.6	99	99.1	99.2
4-Bromofluorobenzene**	%	TM116		79.2	82.5	80.9	81.7	99.1	82.6
Dichlorodifluoromethane	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 #	<60 M	<60 M
Chloromethane	<7 µg/kg	TM116		<70 #	<70 #	<70 #	<70 #	<70 #	<70 #
Vinyl Chloride	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 #	<60 M	<60 M
Bromomethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Chloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Trichlorofluorormethane	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 #	<60 M	<60 M
1,1-Dichloroethene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<100 #
Carbon Disulphide	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 #	<70 M	<70 M
Dichloromethane	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<100 #
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
trans-1,2-Dichloroethene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
1,1-Dichloroethane	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<80 #	<80 M	<80 M
cis-1,2-Dichloroethene	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 #	<60 M	<60 M
2,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Bromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Chloroform	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<80 #	<80 M	<80 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 #	<70 M	<70 M
1,1-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Carbontetrachloride	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
1,2-Dichloroethane	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 #	<50 M	<50 M
Benzene	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<90 #	<90 M	<90 M
Trichloroethene	<9 µg/kg	TM116		<90 #	<90 #	<90 #	<90 #	<90 #	<90 #
1,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Dibromomethane	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<90 #	<90 M	<90 M
Bromodichloromethane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 #	<70 M	<70 M
cis-1,3-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Toluene	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 #	<70 M	<70 M
trans-1,3-Dichloropropene	<10 µg/kg	TM116		<100	<100	<100	<100	<100	<100
1,1,2-Trichloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW002	HAW002	HAW002	HAW002	HAW003	HAW003
			Depth (m)	1.50	2.50	3.50	4.30	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782438	10782449	10782457	10782464	10782475	10782479
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 #	<70 M	<70 M
Tetrachloroethene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 #	<50 M	<50 M
Dibromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
1,2-Dibromoethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Chlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 #	<50 M	<50 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Ethylbenzene	<4 µg/kg	TM116		<40 M	<40 M	<40 M	<40 #	<40 M	<40 M
p/m-Xylene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<100 #
o-Xylene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Styrene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<100 #
Bromoform	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Isopropylbenzene	<5 µg/kg	TM116		<50 #	<50 #	<50 #	91.4 #	<50 #	<50 #
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
1,2,3-Trichloropropane	<16 µg/kg	TM116		<160 M	<160 M	<160 M	<160 #	<160 M	<160 M
Bromobenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
Propylbenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	221 #	<100 M	<100 M
2-Chlorotoluene	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<90 #	<90 M	<90 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<80 #	<80 M	<80 M
4-Chlorotoluene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
tert-Butylbenzene	<14 µg/kg	TM116		<140 M	<140 M	<140 M	<140 #	<140 M	<140 M
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<90 #	<90 #	<90 #	<90 #	<90 #	<90 #
sec-Butylbenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	253 #	<100 M	<100 M
4-Isopropyltoluene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
1,3-Dichlorobenzene	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<80 #	<80 M	<80 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 #	<50 M	<50 M
n-Butylbenzene	<11 µg/kg	TM116		<110	<110	<110	365	<110	<110
1,2-Dichlorobenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 #	<100 M	<100 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<140 M	<140 M	<140 M	<140 #	<140 M	<140 M
Tert-amyl methyl ether	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<100 #
1,2,4-Trichlorobenzene	<20 µg/kg	TM116		<200	<200	<200	<200	<200	<200
Hexachlorobutadiene	<20 µg/kg	TM116		<200	<200	<200	<200	<200	<200
Naphthalene	<13 µg/kg	TM116		<130 M	<130 M	<130 M	<130 #	<130 M	<130 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW002	HAW002	HAW002	HAW002	HAW003	HAW003
			Depth (m)	1.50	2.50	3.50	4.30	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782438	10782449	10782457	10782464	10782475	10782479
			AGS Reference						
1,2,3-Trichlorobenzene	<20 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW003	HAW003	HAW003	HAW005	HAW005	HAW005
			Depth (m)	2.70	3.50	4.30	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782484	10782489	10782493	10782505	10782510	10782514
			AGS Reference						
Dibromofluoromethane**	%	TM116		112	114	116	120	118	102
Toluene-d8**	%	TM116		102	97.8	99.3	99.1	98.6	97.3
4-Bromofluorobenzene**	%	TM116		83	71.4	81.2	80.8	80.8	94.5
Dichlorodifluoromethane	<6 µg/kg	TM116		<6 M	<6 M	<60 M	<60 M	<60 M	<60 M
Chloromethane	<7 µg/kg	TM116		<7 #	<7 #	<70 #	<70 #	<70 #	<70 #
Vinyl Chloride	<6 µg/kg	TM116		<6 M	<6 M	<60 M	<60 M	<60 M	<60 M
Bromomethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Chloroethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<6 M	<60 M	<60 M	<60 M	<60 M
1,1-Dichloroethene	<10 µg/kg	TM116		<10 #	<10 #	<100 #	<100 #	<100 #	<100 #
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<7 M	<70 M	<70 M	<70 M	<70 M
Dichloromethane	<10 µg/kg	TM116		<10 #	<10 #	<100 #	<100 #	<100 #	<100 #
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
trans-1,2-Dichloroethene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,1-Dichloroethane	<8 µg/kg	TM116		<8 M	<8 M	<80 M	<80 M	<80 M	<80 M
cis-1,2-Dichloroethene	<6 µg/kg	TM116		<6 M	<6 M	<60 M	<60 M	<60 M	<60 M
2,2-Dichloropropane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Bromochloromethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Chloroform	<8 µg/kg	TM116		<8 M	<8 M	<80 M	<80 M	<80 M	<80 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<7 M	<7 M	<70 M	<70 M	<70 M	<70 M
1,1-Dichloropropene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Carbontetrachloride	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,2-Dichloroethane	<5 µg/kg	TM116		<5 M	<5 M	<50 M	<50 M	<50 M	<50 M
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<90 M	<90 M	<90 M	<90 M
Trichloroethene	<9 µg/kg	TM116		<9 #	<9 #	<90 #	<90 #	<90 #	<90 #
1,2-Dichloropropane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Dibromomethane	<9 µg/kg	TM116		<9 M	<9 M	<90 M	<90 M	<90 M	<90 M
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<7 M	<70 M	<70 M	<70 M	<70 M
cis-1,3-Dichloropropene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Toluene	<7 µg/kg	TM116		<7 M	<7 M	<70 M	<70 M	<70 M	<70 M
trans-1,3-Dichloropropene	<10 µg/kg	TM116		<10	<10	<100	<100	<100	<100
1,1,2-Trichloroethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW003	HAW003	HAW003	HAW005	HAW005	HAW005
			Depth (m)	2.70	3.50	4.30	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782484	10782489	10782493	10782505	10782510	10782514
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<7 M	<7 M	<70 M	<70 M	<70 M	<70 M
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<5 M	<50 M	<50 M	<50 M	<50 M
Dibromochloromethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,2-Dibromoethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Chlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<50 M	<50 M	<50 M	<50 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<40 M	<40 M	<40 M	<40 M
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 #	<100 #	<100 #	<100 #	<100 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Styrene	<10 µg/kg	TM116		<10 #	<10 #	<100 #	<100 #	<100 #	<100 #
Bromoform	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Isopropylbenzene	<5 µg/kg	TM116		<5 #	9.23 #	<50 #	<50 #	<50 #	<50 #
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,2,3-Trichloropropane	<16 µg/kg	TM116		<16 M	<16 M	<160 M	<160 M	<160 M	<160 M
Bromobenzene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
Propylbenzene	<10 µg/kg	TM116		<10 M	22.7 M	<100 M	<100 M	<100 M	<100 M
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<9 M	<90 M	<90 M	<90 M	<90 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8 M	<8 M	<80 M	<80 M	<80 M	<80 M
4-Chlorotoluene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
tert-Butylbenzene	<14 µg/kg	TM116		<14 M	<14 M	<140 M	<140 M	<140 M	<140 M
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<9 #	<90 #	<90 #	<90 #	<90 #
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
4-Isopropyltoluene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,3-Dichlorobenzene	<8 µg/kg	TM116		<8 M	<8 M	<80 M	<80 M	<80 M	<80 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<50 M	<50 M	<50 M	<50 M
n-Butylbenzene	<11 µg/kg	TM116		<11	17.7	<110	<110	<110	<110
1,2-Dichlorobenzene	<10 µg/kg	TM116		<10 M	<10 M	<100 M	<100 M	<100 M	<100 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<14 M	<140 M	<140 M	<140 M	<140 M
Tert-amyl methyl ether	<10 µg/kg	TM116		<10 #	<10 #	<100 #	<100 #	<100 #	<100 #
1,2,4-Trichlorobenzene	<20 µg/kg	TM116		<20	<20	<200	<200	<200	<200
Hexachlorobutadiene	<20 µg/kg	TM116		<20	<20	<200	<200	<200	<200
Naphthalene	<13 µg/kg	TM116		<13 M	<13 M	<130 M	<130 M	<130 M	<130 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW003	HAW003	HAW003	HAW005	HAW005	HAW005
			Depth (m)	2.70	3.50	4.30	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782484	10782489	10782493	10782505	10782510	10782514
			AGS Reference						
1,2,3-Trichlorobenzene	<20 µg/kg	TM116		<20 #	<20 #	<200 #	<200 #	<200 #	<200 #

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW005	HAW005	HAW006	HAW006	HAW006	HAW007
			Depth (m)	3.50	4.50	0.20	1.00	1.50	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782518	10782522	10782391	10782397	10782407	10782564
			AGS Reference						
Dibromofluoromethane**	%	TM116		117	117	117	119	120	115
Toluene-d8**	%	TM116		99.3	100	101	96.1	97.7	96.1
4-Bromofluorobenzene**	%	TM116		80.6	85.5	85.8	77.5	81.4	73.5
Dichlorodifluoromethane	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 M	<60 M	<6 M
Chloromethane	<7 µg/kg	TM116		<70 #	<70 #	<70 #	<70 #	<70 #	<7 #
Vinyl Chloride	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 M	<60 M	<6 M
Bromomethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Chloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Trichlorofluorormethane	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 M	<60 M	<6 M
1,1-Dichloroethene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<10 #
Carbon Disulphide	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 M	<70 M	<7 M
Dichloromethane	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<10 #
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
trans-1,2-Dichloroethene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
1,1-Dichloroethane	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M	<8 M
cis-1,2-Dichloroethene	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<60 M	<60 M	<6 M
2,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Bromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Chloroform	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M	<8 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 M	<70 M	<7 M
1,1-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Carbontetrachloride	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
1,2-Dichloroethane	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 M	<50 M	<5 M
Benzene	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<90 M	<90 M	<9 M
Trichloroethene	<9 µg/kg	TM116		103 #	<90 #	<90 #	<90 #	<90 #	<9 #
1,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Dibromomethane	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<90 M	<90 M	<9 M
Bromodichloromethane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 M	<70 M	<7 M
cis-1,3-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Toluene	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 M	<70 M	<7 M
trans-1,3-Dichloropropene	<10 µg/kg	TM116		<100	<100	<100	<100	<100	<10
1,1,2-Trichloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW005	HAW005	HAW006	HAW006	HAW006	HAW007
			Depth (m)	3.50	4.50	0.20	1.00	1.50	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782518	10782522	10782391	10782397	10782407	10782564
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<70 M	<70 M	<7 M
Tetrachloroethene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 M	<50 M	<5 M
Dibromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
1,2-Dibromoethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Chlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 M	<50 M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Ethylbenzene	<4 µg/kg	TM116		<40 M	<40 M	<40 M	<40 M	<40 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<10 #
o-Xylene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Styrene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<10 #
Bromoform	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Isopropylbenzene	<5 µg/kg	TM116		<50 #	133 #	<50 #	<50 #	<50 #	<5 #
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
1,2,3-Trichloropropane	<16 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<160 M	<16 M
Bromobenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
Propylbenzene	<10 µg/kg	TM116		121 M	337 M	<100 M	<100 M	<100 M	<10 M
2-Chlorotoluene	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<90 M	<90 M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		411 M	178 M	<80 M	<80 M	<80 M	<8 M
4-Chlorotoluene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
tert-Butylbenzene	<14 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<14 M
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		1470 #	581 #	<90 #	<90 #	<90 #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116		<100 M	400 M	<100 M	<100 M	<100 M	<10 M
4-Isopropyltoluene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
1,3-Dichlorobenzene	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M	<8 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<50 M	<50 M	<5 M
n-Butylbenzene	<11 µg/kg	TM116		<110	<110	<110	<110	<110	<11
1,2-Dichlorobenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<10 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<14 M
Tert-amyl methyl ether	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<100 #	<100 #	<10 #
1,2,4-Trichlorobenzene	<20 µg/kg	TM116		<200	<200	<200	<200	<200	<20
Hexachlorobutadiene	<20 µg/kg	TM116		<200	<200	<200	<200	<200	<20
Naphthalene	<13 µg/kg	TM116		<130 M	<130 M	<130 M	<130 M	<130 M	<13 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW005	HAW005	HAW006	HAW006	HAW006	HAW007
			Depth (m)	3.50	4.50	0.20	1.00	1.50	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782518	10782522	10782391	10782397	10782407	10782564
			AGS Reference						
1,2,3-Trichlorobenzene	<20 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<20 #

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW007	HAW007	HAW008	HAW008	HAW009	HAW009
			Depth (m)	1.20	2.00	0.20	0.40	0.20	1.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782378	10782385	10782556	10782560	10782542	10782546
			AGS Reference						
Dibromofluoromethane**	%	TM116		105	111	124 2	123 2	99.6	101
Toluene-d8**	%	TM116		94.1	86.6	93.6 2	95.2 2	91.7	95.2
4-Bromofluorobenzene**	%	TM116		93.8	73.7	72.2 2	77.4 2	74.2	88.2
Dichlorodifluoromethane	<6 µg/kg	TM116		<60 M	<6 M	<60 2 M	<60 2 M	<6 M	<60 M
Chloromethane	<7 µg/kg	TM116		<70 #	<7 #	<70 2 #	<70 2 #	<7 #	<70 #
Vinyl Chloride	<6 µg/kg	TM116		<60 M	<6 M	<60 2 M	<60 2 M	<6 M	<60 M
Bromomethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Chloroethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Trichlorofluorormethane	<6 µg/kg	TM116		<60 M	<6 M	<60 2 M	<60 2 M	<6 M	<60 M
1,1-Dichloroethene	<10 µg/kg	TM116		<100 #	<10 #	<100 2 #	<100 2 #	<10 #	<100 #
Carbon Disulphide	<7 µg/kg	TM116		<70 M	16 M	<70 2 M	<70 2 M	<7 M	<70 M
Dichloromethane	<10 µg/kg	TM116		<100 #	<10 #	<100 2 #	<100 2 #	<10 #	<100 #
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
trans-1,2-Dichloroethene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
1,1-Dichloroethane	<8 µg/kg	TM116		<80 M	<8 M	<80 2 M	<80 2 M	<8 M	<80 M
cis-1,2-Dichloroethene	<6 µg/kg	TM116		<60 M	<6 M	<60 2 M	<60 2 M	<6 M	<60 M
2,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Bromochloromethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Chloroform	<8 µg/kg	TM116		<80 M	<8 M	<80 2 M	<80 2 M	<8 M	<80 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<70 M	<7 M	<70 2 M	<70 2 M	<7 M	<70 M
1,1-Dichloropropene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Carbontetrachloride	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
1,2-Dichloroethane	<5 µg/kg	TM116		<50 M	<5 M	<50 2 M	<50 2 M	<5 M	<50 M
Benzene	<9 µg/kg	TM116		<90 M	<9 M	<90 2 M	<90 2 M	<9 M	<90 M
Trichloroethene	<9 µg/kg	TM116		<90 #	<9 #	<90 2 #	<90 2 #	<9 #	<90 #
1,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Dibromomethane	<9 µg/kg	TM116		<90 M	<9 M	<90 2 M	<90 2 M	<9 M	<90 M
Bromodichloromethane	<7 µg/kg	TM116		<70 M	<7 M	<70 2 M	<70 2 M	<7 M	<70 M
cis-1,3-Dichloropropene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Toluene	<7 µg/kg	TM116		<70 M	<7 M	<70 2 M	<70 2 M	<7 M	<70 M
trans-1,3-Dichloropropene	<10 µg/kg	TM116		<100	<10	<100 2	<100 2	<10	<100
1,1,2-Trichloroethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW007	HAW007	HAW008	HAW008	HAW009	HAW009
			Depth (m)	1.20	2.00	0.20	0.40	0.20	1.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782378	10782385	10782556	10782560	10782542	10782546
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<70 M	<7 M	<70 2 M	<70 2 M	<7 M	<70 M
Tetrachloroethene	<5 µg/kg	TM116		<50 M	<5 M	<50 2 M	<50 2 M	<5 M	<50 M
Dibromochloromethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
1,2-Dibromoethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Chlorobenzene	<5 µg/kg	TM116		<50 M	<5 M	<50 2 M	<50 2 M	<5 M	<50 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Ethylbenzene	<4 µg/kg	TM116		<40 M	<4 M	<40 2 M	<40 2 M	<4 M	<40 M
p/m-Xylene	<10 µg/kg	TM116		<100 #	<10 #	<100 2 #	<100 2 #	<10 #	<100 #
o-Xylene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Styrene	<10 µg/kg	TM116		<100 #	<10 #	<100 2 #	<100 2 #	<10 #	<100 #
Bromoform	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Isopropylbenzene	<5 µg/kg	TM116		<50 #	<5 #	<50 2 #	<50 2 #	<5 #	<50 #
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
1,2,3-Trichloropropane	<16 µg/kg	TM116		<160 M	<16 M	<160 2 M	<160 2 M	<16 M	<160 M
Bromobenzene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
Propylbenzene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
2-Chlorotoluene	<9 µg/kg	TM116		<90 M	<9 M	<90 2 M	<90 2 M	<9 M	<90 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<80 M	<8 M	<80 2 M	<80 2 M	<8 M	<80 M
4-Chlorotoluene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
tert-Butylbenzene	<14 µg/kg	TM116		<140 M	<14 M	<140 2 M	<140 2 M	<14 M	<140 M
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<90 #	<9 #	<90 2 #	<90 2 #	<9 #	<90 #
sec-Butylbenzene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
4-Isopropyltoluene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
1,3-Dichlorobenzene	<8 µg/kg	TM116		<80 M	<8 M	<80 2 M	<80 2 M	<8 M	<80 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<50 M	<5 M	<50 2 M	<50 2 M	<5 M	<50 M
n-Butylbenzene	<11 µg/kg	TM116		<110	<11	<110 2	<110 2	<11	<110
1,2-Dichlorobenzene	<10 µg/kg	TM116		<100 M	<10 M	<100 2 M	<100 2 M	<10 M	<100 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<140 M	<14 M	<140 2 M	<140 2 M	<14 M	<140 M
Tert-amyl methyl ether	<10 µg/kg	TM116		<100 #	<10 #	<100 2 #	<100 2 #	<10 #	<100 #
1,2,4-Trichlorobenzene	<20 µg/kg	TM116		<200	<20	<200 2	<200 2	<20	<200
Hexachlorobutadiene	<20 µg/kg	TM116		<200	<20	<200 2	<200 2	<20	<200
Naphthalene	<13 µg/kg	TM116		<130 M	<13 M	<130 2 M	<130 2 M	<13 M	<130 M

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW007	HAW007	HAW008	HAW008	HAW009	HAW009
			Depth (m)	1.20	2.00	0.20	0.40	0.20	1.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015	02/02/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015	05/02/2015
			SDG Ref	150205-55	150205-55	150205-55	150205-55	150205-55	150205-55
			Lab Sample No.(s)	10782378	10782385	10782556	10782560	10782542	10782546
			AGS Reference						
1,2,3-Trichlorobenzene	<20 µg/kg	TM116		<200 #	<20 #	<200 2 #	<200 2 #	<20 #	<200 #

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW009	HAW010	HAW010	HAW010		
			Depth (m)	2.20	0.20	1.20	2.20		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015		
			Sample Time	.	.	.	.		
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015		
			SDG Ref	150205-55	150205-55	150205-55	150205-55		
			Lab Sample No.(s)	10782552	10782364	10782443	10782497		
			AGS Reference						
Dibromofluoromethane**	%	TM116		127	116	115	99.1		
Toluene-d8**	%	TM116		98.1	98.4	97	84.9		
4-Bromofluorobenzene**	%	TM116		81.8	80.6	78.9	73.1		
Dichlorodifluoromethane	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<6 M		
Chloromethane	<7 µg/kg	TM116		<70 #	<70 #	<70 #	<7 #		
Vinyl Chloride	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<6 M		
Bromomethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Chloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<6 M		
1,1-Dichloroethene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<10 #		
Carbon Disulphide	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<7 M		
Dichloromethane	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<10 #		
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
trans-1,2-Dichloroethene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
1,1-Dichloroethane	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<8 M		
cis-1,2-Dichloroethene	<6 µg/kg	TM116		<60 M	<60 M	<60 M	<6 M		
2,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Bromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Chloroform	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<8 M		
1,1,1-Trichloroethane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<7 M		
1,1-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Carbontetrachloride	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
1,2-Dichloroethane	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<5 M		
Benzene	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<9 M		
Trichloroethene	<9 µg/kg	TM116		<90 #	<90 #	<90 #	<9 #		
1,2-Dichloropropane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Dibromomethane	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<9 M		
Bromodichloromethane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<7 M		
cis-1,3-Dichloropropene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Toluene	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<7 M		
trans-1,3-Dichloropropene	<10 µg/kg	TM116		<100	<100	<100	<10		
1,1,2-Trichloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW009	HAW010	HAW010	HAW010		
			Depth (m)	2.20	0.20	1.20	2.20		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015		
			Sample Time	.	.	.	.		
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015		
			SDG Ref	150205-55	150205-55	150205-55	150205-55		
			Lab Sample No.(s)	10782552	10782364	10782443	10782497		
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<70 M	<70 M	<70 M	<7 M		
Tetrachloroethene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<5 M		
Dibromochloromethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
1,2-Dibromoethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Chlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<5 M		
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Ethylbenzene	<4 µg/kg	TM116		<40 M	<40 M	<40 M	<4 M		
p/m-Xylene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<10 #		
o-Xylene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Styrene	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<10 #		
Bromoform	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Isopropylbenzene	<5 µg/kg	TM116		<50 #	<50 #	<50 #	<5 #		
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
1,2,3-Trichloropropane	<16 µg/kg	TM116		<160 M	<160 M	<160 M	<16 M		
Bromobenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
Propylbenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
2-Chlorotoluene	<9 µg/kg	TM116		<90 M	<90 M	<90 M	<9 M		
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<8 M		
4-Chlorotoluene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
tert-Butylbenzene	<14 µg/kg	TM116		<140 M	<140 M	<140 M	<14 M		
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<90 #	<90 #	<90 #	<9 #		
sec-Butylbenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
4-Isopropyltoluene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
1,3-Dichlorobenzene	<8 µg/kg	TM116		<80 M	<80 M	<80 M	<8 M		
1,4-Dichlorobenzene	<5 µg/kg	TM116		<50 M	<50 M	<50 M	<5 M		
n-Butylbenzene	<11 µg/kg	TM116		<110	<110	<110	<11		
1,2-Dichlorobenzene	<10 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M		
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<140 M	<140 M	<140 M	<14 M		
Tert-amyl methyl ether	<10 µg/kg	TM116		<100 #	<100 #	<100 #	<10 #		
1,2,4-Trichlorobenzene	<20 µg/kg	TM116		<200	<200	<200	<20		
Hexachlorobutadiene	<20 µg/kg	TM116		<200	<200	<200	<20		
Naphthalene	<13 µg/kg	TM116		<130 M	<130 M	<130 M	<13 M		

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	HAW009	HAW010	HAW010	HAW010		
			Depth (m)	2.20	0.20	1.20	2.20		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	02/02/2015	02/02/2015	02/02/2015	02/02/2015		
			Sample Time	.	.	.	.		
			Date Received	05/02/2015	05/02/2015	05/02/2015	05/02/2015		
			SDG Ref	150205-55	150205-55	150205-55	150205-55		
			Lab Sample No.(s)	10782552	10782364	10782443	10782497		
			AGS Reference						
1,2,3-Trichlorobenzene	<20 µg/kg	TM116		<200 #	<200 #	<200 #	<20 #		

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	DAW001 0.20 SOLID 02/02/2015 00:00:00 11/02/2015 11:27:41 150205-55 10782415 TM048	17/02/15	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW001 0.20 SOLID 02/02/2015 00:00:00 11/02/2015 14:02:32 150205-55 10782469 TM048	17/02/15	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW001 0.50 SOLID 02/02/2015 00:00:00 11/02/2015 15:06:20 150205-55 10782472 TM048	17/02/15	Chris Swindells	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW002 0.50 SOLID 02/02/2015 00:00:00 11/02/2015 13:53:30 150205-55 10782434 TM048	17/02/15	Chris Swindells	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW003 0.50 SOLID 02/02/2015 00:00:00 11/02/2015 13:56:18 150205-55 10782475 TM048	17/02/15	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW004 0.20 SOLID 02/02/2015 00:00:00 11/02/2015 11:55:10 150205-55 10782526 TM048	17/02/15	Simon Postlewhite	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW004 0.50 SOLID 02/02/2015 00:00:00 11/02/2015 12:01:01 150205-55 10782533 TM048	17/02/15	Chris Swindells	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW005 0.50 SOLID 02/02/2015 00:00:00 11/02/2015 13:15:40 150205-55 10782505 TM048	17/02/15	Chris Swindells	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW006 0.20 SOLID 02/02/2015 00:00:00 11/02/2015 13:13:01 150205-55 10782391 TM048	17/02/15	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW007 0.20 SOLID 02/02/2015 00:00:00 12/02/2015 13:37:03 150205-55 10782564 TM048	17/02/15	Chris Swindells	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW008 0.20 SOLID 02/02/2015 00:00:00 12/02/2015 13:33:07 150205-55 10782556 TM048	17/02/15	Simon Postlewhite	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW008 0.40 SOLID 02/02/2015 00:00:00 12/02/2015 13:42:00 150205-55 10782560 TM048	17/02/15	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW009 0.20 SOLID 02/02/2015 00:00:00 12/02/2015 12:59:00 150205-55 10782542 TM048	17/02/15	Chris Swindells	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW010 0.20 SOLID 02/02/2015 00:00:00 11/02/2015 13:18:18 150205-55 10782364 TM048	17/02/15	Simon Postlewhite	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	DAW001 0.20 SOLID 02/02/2015 00:00:00 20/03/2015 07:58:31 150205-55 10782415 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW001 0.20 SOLID 02/02/2015 00:00:00 23/03/2015 11:43:20 150205-55 10782469 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW001 0.50 SOLID 02/02/2015 00:00:00 20/03/2015 07:58:51 150205-55 10782472 TM 304	Chrysotile (Loose fibres in soil). (#)	N/C	0.0026 (#)	<0.001 (#)	0.0032 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW003 0.50 SOLID 02/02/2015 00:00:00 23/03/2015 11:41:22 150205-55 10782475 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW004 0.20 SOLID 02/02/2015 00:00:00 20/03/2015 08:04:42 150205-55 10782526 TM 304	None (#)	N/C	0.0052 (#)	0.0016 (#)	0.0068 (#)

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW004 0.50 SOLID 02/02/2015 00:00:00 20/03/2015 08:07:46 150205-55 10782533 TM 304	None (#)	N/C	0.0018 (#)	<0.001 (#)	0.0023 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW005 0.50 SOLID 02/02/2015 00:00:00 23/03/2015 11:00:36 150205-55 10782505 TM 304	None (#)	N/C	0.0159 (#)	0.0018 (#)	0.0177 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW006 0.20 SOLID 02/02/2015 00:00:00 23/03/2015 11:03:26 150205-55 10782391 TM 304	Crocidolite (Loose fibres in soil). (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW007 0.20 SOLID 02/02/2015 00:00:00 23/03/2015 10:56:14 150205-55 10782564 TM 304	None (#)	N/C	0.0014 (#)	0.0010 (#)	0.0024 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW008 0.20 SOLID 02/02/2015 00:00:00 23/03/2015 10:59:45 150205-55 10782556 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	0.0013 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW008 0.40 SOLID 02/02/2015 00:00:00 23/03/2015 11:08:21 150205-55 10782560 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAW009 0.20 SOLID 02/02/2015 00:00:00 23/03/2015 11:11:27 150205-55 10782542 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	10782415	10782419	10782429	10782469	10782472	10782434	10782438	10782449	10782457	10782464
Customer Sample Ref.	DAW001	DAW001	DAW001	HAW001	HAW001	HAW002	HAW002	HAW002	HAW002	HAW002
AGS Ref.										
Depth	0.20	1.20	2.20	0.20	0.50	0.50	1.50	2.50	3.50	4.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	17-Feb-2015			17-Feb-2015	17-Feb-2015	17-Feb-2015				
Asbestos Quantification - Full	31-Mar-2015			31-Mar-2015	31-Mar-2015					
EPH CWG (Aliphatic) GC (S)	13-Feb-2015	13-Feb-2015	13-Feb-2015			16-Feb-2015	16-Feb-2015	16-Feb-2015	13-Feb-2015	16-Feb-2015
EPH CWG (Aromatic) GC (S)	13-Feb-2015	13-Feb-2015	13-Feb-2015			16-Feb-2015	16-Feb-2015	16-Feb-2015	13-Feb-2015	16-Feb-2015
GRO by GC-FID (S)	16-Feb-2015	16-Feb-2015	16-Feb-2015			15-Feb-2015	15-Feb-2015	15-Feb-2015	15-Feb-2015	15-Feb-2015
Metals in solid samples by OES	17-Feb-2015	15-Feb-2015	15-Feb-2015			17-Feb-2015	17-Feb-2015	17-Feb-2015	16-Feb-2015	17-Feb-2015
PAH by GCMS	13-Feb-2015	13-Feb-2015	13-Feb-2015			14-Feb-2015	14-Feb-2015	14-Feb-2015	13-Feb-2015	14-Feb-2015
pH	14-Feb-2015	13-Feb-2015	13-Feb-2015			14-Feb-2015	14-Feb-2015	14-Feb-2015	13-Feb-2015	13-Feb-2015
Sample description	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	12-Feb-2015	12-Feb-2015	11-Feb-2015	11-Feb-2015	12-Feb-2015
Total Organic Carbon			15-Feb-2015	16-Feb-2015			16-Feb-2015			
TPH CWG GC (S)	16-Feb-2015	16-Feb-2015	16-Feb-2015			16-Feb-2015	16-Feb-2015	16-Feb-2015	15-Feb-2015	16-Feb-2015
VOC MS (S)	15-Feb-2015	15-Feb-2015	12-Feb-2015	15-Feb-2015	15-Feb-2015	15-Feb-2015	15-Feb-2015	13-Feb-2015	13-Feb-2015	15-Feb-2015

Lab Sample No(s)	10782475	10782479	10782484	10782489	10782493	10782526	10782533	10782505	10782510	10782514
Customer Sample Ref.	HAW003	HAW003	HAW003	HAW003	HAW003	HAW004	HAW004	HAW005	HAW005	HAW005
AGS Ref.										
Depth	0.50	1.50	2.70	3.50	4.30	0.20	0.50	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	17-Feb-2015					17-Feb-2015	17-Feb-2015	17-Feb-2015		
Asbestos Quantification - Full	30-Mar-2015					31-Mar-2015	01-Apr-2015	02-Apr-2015		
EPH CWG (Aliphatic) GC (S)	13-Feb-2015	16-Feb-2015	13-Feb-2015	16-Feb-2015	13-Feb-2015			13-Feb-2015	13-Feb-2015	13-Feb-2015
EPH CWG (Aromatic) GC (S)	13-Feb-2015	16-Feb-2015	13-Feb-2015	16-Feb-2015	13-Feb-2015			14-Feb-2015	13-Feb-2015	13-Feb-2015
GRO by GC-FID (S)	16-Feb-2015	15-Feb-2015	15-Feb-2015	16-Feb-2015	15-Feb-2015			15-Feb-2015	15-Feb-2015	16-Feb-2015
Metals in solid samples by OES	17-Feb-2015	17-Feb-2015	15-Feb-2015	17-Feb-2015	16-Feb-2015			17-Feb-2015	17-Feb-2015	17-Feb-2015
PAH by GCMS	14-Feb-2015	14-Feb-2015	13-Feb-2015	14-Feb-2015	13-Feb-2015			14-Feb-2015	13-Feb-2015	14-Feb-2015
pH	14-Feb-2015	14-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015			14-Feb-2015	14-Feb-2015	13-Feb-2015
Sample description	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015
Total Organic Carbon	16-Feb-2015					16-Feb-2015		16-Feb-2015	16-Feb-2015	
TPH CWG GC (S)	16-Feb-2015	16-Feb-2015	15-Feb-2015	16-Feb-2015	15-Feb-2015			15-Feb-2015	15-Feb-2015	16-Feb-2015
VOC MS (S)	13-Feb-2015	13-Feb-2015	12-Feb-2015	14-Feb-2015	13-Feb-2015			15-Feb-2015	13-Feb-2015	15-Feb-2015

Lab Sample No(s)	10782518	10782522	10782391	10782397	10782407	10782378	10782385	10782564	10782556	10782560
Customer Sample Ref.	HAW005	HAW005	HAW006	HAW006	HAW006	HAW007	HAW007	HAW007	HAW008	HAW008
AGS Ref.										
Depth	3.50	4.50	0.20	1.00	1.50	1.20	2.00	0.20	0.20	0.40
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			17-Feb-2015					17-Feb-2015	17-Feb-2015	17-Feb-2015
Asbestos Quantification - Full			02-Apr-2015					02-Apr-2015	02-Apr-2015	01-Apr-2015
EPH CWG (Aliphatic) GC (S)	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015		
EPH CWG (Aromatic) GC (S)	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015		
GRO by GC-FID (S)	15-Feb-2015	15-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015		
Metals in solid samples by OES	17-Feb-2015	17-Feb-2015	16-Feb-2015	16-Feb-2015	15-Feb-2015	15-Feb-2015	15-Feb-2015	17-Feb-2015		
PAH by GCMS	14-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015		
pH	14-Feb-2015	14-Feb-2015	14-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	14-Feb-2015		
Sample description	11-Feb-2015	12-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015	12-Feb-2015	12-Feb-2015
Total Organic Carbon					15-Feb-2015	15-Feb-2015				
TPH CWG GC (S)	15-Feb-2015	15-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015		
VOC MS (S)	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015	15-Feb-2015	12-Feb-2015	12-Feb-2015	15-Feb-2015	15-Feb-2015

CERTIFICATE OF ANALYSIS

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Lab Sample No(s)	10782542	10782546	10782552	10782364	10782443	10782497
Customer Sample Ref.	HAW009	HAW009	HAW009	HAW010	HAW010	HAW010
AGS Ref.						
Depth	0.20	1.20	2.20	0.20	1.20	2.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	17-Feb-2015			17-Feb-2015		
Asbestos Quantification - Full	01-Apr-2015					
EPH CWG (Aliphatic) GC (S)	13-Feb-2015	13-Feb-2015	16-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015
EPH CWG (Aromatic) GC (S)	13-Feb-2015	13-Feb-2015	16-Feb-2015	13-Feb-2015	13-Feb-2015	13-Feb-2015
GRO by GC-FID (S)	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015
Metals in solid samples by OES	17-Feb-2015	17-Feb-2015	17-Feb-2015	17-Feb-2015	17-Feb-2015	16-Feb-2015
PAH by GCMS	14-Feb-2015	14-Feb-2015	14-Feb-2015	14-Feb-2015	14-Feb-2015	13-Feb-2015
pH	14-Feb-2015	14-Feb-2015	13-Feb-2015	14-Feb-2015	14-Feb-2015	13-Feb-2015
Sample description	11-Feb-2015	11-Feb-2015	12-Feb-2015	11-Feb-2015	11-Feb-2015	11-Feb-2015
Total Organic Carbon			16-Feb-2015	16-Feb-2015		
TPH CWG GC (S)	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015	16-Feb-2015
VOC MS (S)	12-Feb-2015	15-Feb-2015	15-Feb-2015	13-Feb-2015	13-Feb-2015	12-Feb-2015

SDG:	150205-55	**Location:**	Coed Darcy	**Order Number:**	CD1079
Job:	H_ATKINS_LDC-281	**Customer:**	Atkins Global Ltd	**Report Number:**	307841
Client Reference:	Commercial Area Validation	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before presevation was performed
§	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Coed Darcy
Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

Date:	01 August 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130627-56
Your Reference:	Phase 28
Location:	Coed Darcy
Report No:	235780

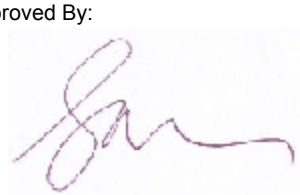
This report has been revised and directly supersedes 235569 in its entirety.

We received 2 samples on Thursday June 27, 2013 and 2 of these samples were scheduled for analysis which was completed on Thursday August 01, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7663118	PHS 28 PIT 3		0.40	26/06/2013
7663122	PHS 28 PIT 3		2.00	26/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7663118	PHS 28 PIT 3		0.40	250g Amber Jar (AL)
							400g Tub (ALE214)
							60g VOC (ALE215)
			7663122	PHS 28 PIT 3		2.00	250g Amber Jar (AL)
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 2					
				X			
							X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1					
				X			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 2	X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 2	X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 2					
				X			
							X
Metals in solid samples by OES	All	NDPs: 0 Tests: 2	X			X	
pH	All	NDPs: 0 Tests: 2					
				X			
							X
Sample description	All	NDPs: 0 Tests: 2	X			X	
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 2	X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 2	X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 2	X			X	
VOC MS (S)	All	NDPs: 0 Tests: 2					
				X			
							X

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Sample Descriptions

Grain Sizes

very fine	<0.063mm	**fine**	0.063mm - 0.1mm	**medium**	0.1mm - 2mm	**coarse**	2mm - 10mm	**very coarse**	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7663118	PHS 28 PIT 3	0.40	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7663122	PHS 28 PIT 3	2.00	Light Brown	Sandy Loam	0.1 - 2 mm	None	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3
			Depth (m)	0.40	2.00
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013
			Sample Time	.	.
			Date Received	27/06/2013	27/06/2013
			SDG Ref	130627-56	130627-56
			Lab Sample No.(s)	7663118	7663122
			AGS Reference		
Soil Organic Matter (SOM)	<0.35 %	TM132		4.71 #	1.12 #
pH	1 pH Units	TM133		11.6 M	7.45 M
Arsenic	<0.6 mg/kg	TM181		36.2 M	5.46 M
Cadmium	<0.02 mg/kg	TM181		1.08 M	0.511 M
Chromium	<0.9 mg/kg	TM181		22.4 M	11.7 M
Copper	<1.4 mg/kg	TM181		112 M	14.3 M
Lead	<0.7 mg/kg	TM181		308 M	15.1 M
Mercury	<0.14 mg/kg	TM181		9.82 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		16.5 M	19.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		22.7 #	12.5 #
Zinc	<1.9 mg/kg	TM181		717 M	59.6 M

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3				
			Depth (m)	0.40	2.00				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-56	130627-56				
			Lab Sample No.(s)	7663118	7663122				
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100				
Pentachlorophenol	<100 µg/kg	TM157		<100	<100				
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100				
Nitrobenzene	<100 µg/kg	TM157		<100	<100				
Isophorone	<100 µg/kg	TM157		<100	<100				
Hexachloroethane	<100 µg/kg	TM157		<100	<100				
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100				
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100				
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100				
Diethyl phthalate	<100 µg/kg	TM157		<100	<100				
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100				
Dibenzofuran	<100 µg/kg	TM157		<100	<100				
Carbazole	<100 µg/kg	TM157		<100	<100				
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100				
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		112	<100				
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100				
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100				
Azobenzene	<100 µg/kg	TM157		<100	<100				
4-Nitrophenol	<100 µg/kg	TM157		<100	<100				
4-Nitroaniline	<100 µg/kg	TM157		<100	<100				
4-Methylphenol	<100 µg/kg	TM157		<100	<100				
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100				
4-Chloroaniline	<100 µg/kg	TM157		<100	<100				
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100				
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100				
3-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Nitrophenol	<100 µg/kg	TM157		<100	<100				
2-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Methylphenol	<100 µg/kg	TM157		<100	<100				
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3				
			Depth (m)	0.40	2.00				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-56	130627-56				
			Lab Sample No.(s)	7663118	7663122				
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100				
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100				
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100				
2-Methylnaphthalene	<100 µg/kg	TM157		145	<100				
Acenaphthylene	<100 µg/kg	TM157		<100	<100				
Acenaphthene	<100 µg/kg	TM157		<100	<100				
Anthracene	<100 µg/kg	TM157		<100	<100				
Benzo(a)anthracene	<100 µg/kg	TM157		225	<100				
Benzo(b)fluoranthene	<100 µg/kg	TM157		268	<100				
Benzo(k)fluoranthene	<100 µg/kg	TM157		218	<100				
Benzo(a)pyrene	<100 µg/kg	TM157		265	<100				
Benzo(g,h,i)perylene	<100 µg/kg	TM157		237	<100				
Chrysene	<100 µg/kg	TM157		352	<100				
Fluoranthene	<100 µg/kg	TM157		386	<100				
Fluorene	<100 µg/kg	TM157		<100	<100				
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		195	<100				
Phenanthrene	<100 µg/kg	TM157		255	<100				
Pyrene	<100 µg/kg	TM157		408	<100				
Naphthalene	<100 µg/kg	TM157		<100	<100				
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3				
			Depth (m)	0.40	2.00				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	26/06/2013	26/06/2013				
			Sample Time	.	.				
			Date Received	27/06/2013	27/06/2013				
			SDG Ref	130627-56	130627-56				
			Lab Sample No.(s)	7663118	7663122				
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		77	98				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		401 M	<44 M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 ♦ M	<5 M				
Benzene	<10 µg/kg	TM089		<10 ♦ M	<10 M				
Toluene	<2 µg/kg	TM089		7.77 ♦ M	<2 M				
Ethylbenzene	<3 µg/kg	TM089		5.55 ♦ M	<3 M				
m,p-Xylene	<6 µg/kg	TM089		14.4 ♦ M	<6 M				
o-Xylene	<3 µg/kg	TM089		4.44 ♦ M	<3 M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089		18.8	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089		32.1	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089		17.8	<10				
Aliphatics >C6-C8	<10 µg/kg	TM089		24.4	<10				
Aliphatics >C8-C10	<10 µg/kg	TM089		35.5	<10				
Aliphatics >C10-C12	<10 µg/kg	TM089		153	<10				
Aliphatics >C12-C16	<100 µg/kg	TM173		12800	<100				
Aliphatics >C16-C21	<100 µg/kg	TM173		38800	<100				
Aliphatics >C21-C35	<100 µg/kg	TM173		149000	<100				
Aliphatics >C35-C44	<100 µg/kg	TM173		54600	<100				
Total Aliphatics >C12-C44	<100 µg/kg	TM173		255000	<100				
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089		47.7	<10				
Aromatics >EC10-EC12	<10 µg/kg	TM089		102	<10				
Aromatics >EC12-EC16	<100 µg/kg	TM173		5970	<100				
Aromatics >EC16-EC21	<100 µg/kg	TM173		17600	<100				
Aromatics >EC21-EC35	<100 µg/kg	TM173		86700	<100				
Aromatics >EC35-EC44	<100 µg/kg	TM173		50200	<100				
Aromatics >EC40-EC44	<100 µg/kg	TM173		21400	<100				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		160000	<100				
Total Aliphatics >C5-35	<100 µg/kg	TM173		201000	<100				
Total Aromatics >C5-35	<100 µg/kg	TM173		110000	<100				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		311000	<100				

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

TPH CWG (S)

Results Legend		Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3				
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.40	2.00				
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid				
tot.unfilt	Total / unfiltered sample.	Date Sampled	26/06/2013	26/06/2013				
*	Subcontracted test.	Sample Time	.	.				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	27/06/2013	27/06/2013				
		SDG Ref	130627-56	130627-56				
(F)	Trigger breach confirmed	Lab Sample No.(s)	7663118	7663122				
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	416000	<100				

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3
			Depth (m)	0.40	2.00
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013
			Sample Time	.	.
			Date Received	27/06/2013	27/06/2013
			SDG Ref	130627-56	130627-56
			Lab Sample No.(s)	7663118	7663122
			AGS Reference		
Dibromofluoromethane**	%	TM116		98.4 ♦	101
Toluene-d8**	%	TM116		101 ♦	99.2
4-Bromofluorobenzene**	%	TM116		124 ♦	114
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 ♦ M	<4 M
Chloromethane	<7 µg/kg	TM116		<14 ♦	<7
Vinyl Chloride	<10 µg/kg	TM116		<20 ♦	<10
Bromomethane	<13 µg/kg	TM116		<26 ♦ M	<13 M
Chloroethane	<14 µg/kg	TM116		<28 ♦ M	<14 M
Trichlorofluorormethane	<6 µg/kg	TM116		<12 ♦ M	<6 M
1,1-Dichloroethene	<10 µg/kg	TM116		<20 ♦ #	<10 #
Carbon Disulphide	<7 µg/kg	TM116		<14 ♦ M	<7 M
Dichloromethane	<10 µg/kg	TM116		53.2 ♦ #	<10 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 ♦ M	<11 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 ♦ M	<11 M
1,1-Dichloroethane	<8 µg/kg	TM116		<16 ♦ M	<8 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 ♦ M	<5 M
2,2-Dichloropropane	<12 µg/kg	TM116		<24 ♦ M	<12 M
Bromochloromethane	<14 µg/kg	TM116		<28 ♦ M	<14 M
Chloroform	<8 µg/kg	TM116		<16 ♦ M	<8 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 ♦ M	<7 M
1,1-Dichloropropene	<11 µg/kg	TM116		<22 ♦ M	<11 M
Carbontetrachloride	<14 µg/kg	TM116		<28 ♦ M	<14 M
1,2-Dichloroethane	<5 µg/kg	TM116		<10 ♦ M	<5 M
Benzene	<9 µg/kg	TM116		27 ♦ M	<9 M
Trichloroethene	<9 µg/kg	TM116		<18 ♦ M	<9 M
1,2-Dichloropropane	<12 µg/kg	TM116		<24 ♦ M	<12 M
Dibromomethane	<9 µg/kg	TM116		<18 ♦ M	<9 M
Bromodichloromethane	<7 µg/kg	TM116		<14 ♦ M	<7 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 ♦ M	<14 M
Toluene	<5 µg/kg	TM116		39.9 ♦ M	<5 M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<200 ♦	<14
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 ♦ M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3
			Depth (m)	0.40	2.00
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	26/06/2013	26/06/2013
			Sample Time	.	.
			Date Received	27/06/2013	27/06/2013
			SDG Ref	130627-56	130627-56
			Lab Sample No.(s)	7663118	7663122
			AGS Reference		
1,3-Dichloropropane	<7 µg/kg	TM116		<14 ♦ #	<7 #
Tetrachloroethene	<5 µg/kg	TM116		<10 ♦ M	<5 M
Dibromochloromethane	<13 µg/kg	TM116		<26 ♦ M	<13 M
1,2-Dibromoethane	<12 µg/kg	TM116		<24 ♦ M	<12 M
Chlorobenzene	<5 µg/kg	TM116		<10 ♦ M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 ♦ M	<10 M
Ethylbenzene	<4 µg/kg	TM116		26.5 ♦ M	<4 M
p/m-Xylene	<14 µg/kg	TM116		53.9 ♦ #	<14 #
o-Xylene	<10 µg/kg	TM116		<20 ♦ M	<10 M
Styrene	<10 µg/kg	TM116		<20 ♦ M	<10 M
Bromoform	<10 µg/kg	TM116		<20 ♦ M	<10 M
Isopropylbenzene	<5 µg/kg	TM116		<10 ♦ M	<5 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 ♦ #	<10 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 ♦ M	<17 M
Bromobenzene	<10 µg/kg	TM116		<20 ♦ M	<10 M
Propylbenzene	<11 µg/kg	TM116		<22 ♦ M	<11 M
2-Chlorotoluene	<9 µg/kg	TM116		<18 ♦ M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<16 ♦ #	<8 #
4-Chlorotoluene	<12 µg/kg	TM116		<24 ♦ M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116		<24 ♦ #	<12 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<18 ♦ #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116		<20 ♦ M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116		<22 ♦ M	<11 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 ♦ M	<6 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 ♦ M	<5 M
n-Butylbenzene	<10 µg/kg	TM116		<20 ♦ M	<10 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 ♦ M	<12 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 ♦ M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<30 ♦	<15
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 ♦ #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116		<24 ♦	<12
Naphthalene	<13 µg/kg	TM116		<26 ♦ M	<13 M

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

VOC MS (S)

Results Legend		Customer Sample R	PHS 28 PIT 3	PHS 28 PIT 3				
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.40	2.00				
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid				
*	Subcontracted test.	Date Sampled	26/06/2013	26/06/2013				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.				
		Date Received	27/06/2013	27/06/2013				
		SDG Ref	130627-56	130627-56				
(F)	Trigger breach confirmed	Lab Sample No.(s)	7663118	7663122				
1-4&♦§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<12 ♦ M	<6 M				

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT 3 0.40 SOLID 26/06/2013 00:00:00 130627-56 7663118 TM048	11/07/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT 3 2.00 SOLID 26/06/2013 00:00:00 130627-56 7663122 TM048	11/07/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT 3 0.40 SOLID 26/06/2013 00:00:00 130627-56 7663118 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Test Completion Dates

Lab Sample No(s)	7663118	7663122
Customer Sample Ref.	PHS 28 PIT 3	PHS 28 PIT 3
AGS Ref.		
Depth	0.40	2.00
Type	SOLID	SOLID
Asbestos ID in Solid Samples	11-Jul-2013	11-Jul-2013
Asbestos Quantification - Full	31-Jul-2013	
EPH CWG (Aliphatic) GC (S)	10-Jul-2013	10-Jul-2013
EPH CWG (Aromatic) GC (S)	10-Jul-2013	10-Jul-2013
GRO by GC-FID (S)	14-Jul-2013	11-Jul-2013
Metals in solid samples by OES	10-Jul-2013	09-Jul-2013
pH	03-Jul-2013	05-Jul-2013
Sample description	03-Jul-2013	03-Jul-2013
Semi Volatile Organic Compounds	09-Jul-2013	09-Jul-2013
Total Organic Carbon	05-Jul-2013	05-Jul-2013
TPH CWG GC (S)	14-Jul-2013	11-Jul-2013
VOC MS (S)	01-Aug-2013	11-Jul-2013

SDG:	130627-56	**Location:**	Coed Darcy	**Order Number:**	CD0447
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235780
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	235569

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
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Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

Date:	31 July 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130625-29
Your Reference:	Phase 28
Location:	Coed Darcy
Report No:	235567

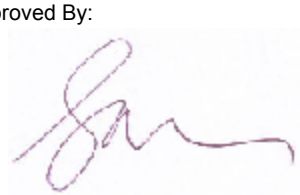
This report has been revised and directly supersedes 232558 in its entirety.

We received 2 samples on Tuesday June 25, 2013 and 2 of these samples were scheduled for analysis which was completed on Wednesday July 31, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7648345	PHS 28 PIT 2		0.40	24/06/2013
7648347	PHS 28 PIT 2		2.80	24/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)											
			7648345					7648347						
			Customer Sample Reference					PHS 28 PIT 2						
			AGS Reference											
			Depth (m)					0.40					2.80	
			Container	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 2		X				X						
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1		X										
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 2	X			X								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 2	X			X								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 2			X				X					
Metals in solid samples by OES	All	NDPs: 0 Tests: 2	X			X								
pH	All	NDPs: 0 Tests: 2		X				X						
Sample description	All	NDPs: 0 Tests: 2	X			X								
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 2	X			X								
Total Organic Carbon	All	NDPs: 0 Tests: 2	X			X								
TPH CWG GC (S)	All	NDPs: 0 Tests: 2	X			X								
VOC MS (S)	All	NDPs: 0 Tests: 2			X				X					

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7648345	PHS 28 PIT 2	0.40	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7648347	PHS 28 PIT 2	2.80	Beige	Sandy Loam	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2				
			Depth (m)	0.40	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	24/06/2013	24/06/2013				
			Sample Time	.	.				
			Date Received	25/06/2013	25/06/2013				
			SDG Ref	130625-29	130625-29				
			Lab Sample No.(s)	7648345	7648347				
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		1.15 #	1.46 #				
pH	1 pH Units	TM133		11.5 M	10.6 M				
Arsenic	<0.6 mg/kg	TM181		3.34 M	6.27 M				
Cadmium	<0.02 mg/kg	TM181		0.0638 M	0.137 M				
Chromium	<0.9 mg/kg	TM181		225 M	14.3 M				
Copper	<1.4 mg/kg	TM181		3.01 M	13.1 M				
Lead	<0.7 mg/kg	TM181		9.55 M	17.4 M				
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M				
Nickel	<0.2 mg/kg	TM181		6.96 M	14 M				
Selenium	<1 mg/kg	TM181		2.95 #	<1 #				
Zinc	<1.9 mg/kg	TM181		31.9 M	36.2 M				

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2				
			Depth (m)	0.40	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	24/06/2013	24/06/2013				
			Sample Time	.	.				
			Date Received	25/06/2013	25/06/2013				
			SDG Ref	130625-29	130625-29				
			Lab Sample No.(s)	7648345	7648347				
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100				
Pentachlorophenol	<100 µg/kg	TM157		<100	<100				
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100				
Nitrobenzene	<100 µg/kg	TM157		<100	<100				
Isophorone	<100 µg/kg	TM157		<100	<100				
Hexachloroethane	<100 µg/kg	TM157		<100	<100				
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100				
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100				
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100				
Diethyl phthalate	<100 µg/kg	TM157		<100	<100				
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100				
Dibenzofuran	<100 µg/kg	TM157		<100	<100				
Carbazole	<100 µg/kg	TM157		<100	<100				
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100				
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100				
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100				
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100				
Azobenzene	<100 µg/kg	TM157		<100	<100				
4-Nitrophenol	<100 µg/kg	TM157		<100	<100				
4-Nitroaniline	<100 µg/kg	TM157		<100	<100				
4-Methylphenol	<100 µg/kg	TM157		<100	<100				
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100				
4-Chloroaniline	<100 µg/kg	TM157		<100	<100				
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100				
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100				
3-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Nitrophenol	<100 µg/kg	TM157		<100	<100				
2-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Methylphenol	<100 µg/kg	TM157		<100	<100				
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2				
			Depth (m)	0.40	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	24/06/2013	24/06/2013				
			Sample Time	.	.				
			Date Received	25/06/2013	25/06/2013				
			SDG Ref	130625-29	130625-29				
			Lab Sample No.(s)	7648345	7648347				
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100				
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100				
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100				
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100				
Acenaphthylene	<100 µg/kg	TM157		<100	<100				
Acenaphthene	<100 µg/kg	TM157		<100	<100				
Anthracene	<100 µg/kg	TM157		117	<100				
Benzo(a)anthracene	<100 µg/kg	TM157		482	<100				
Benzo(b)fluoranthene	<100 µg/kg	TM157		511	<100				
Benzo(k)fluoranthene	<100 µg/kg	TM157		419	<100				
Benzo(a)pyrene	<100 µg/kg	TM157		496	<100				
Benzo(g,h,i)perylene	<100 µg/kg	TM157		325	<100				
Chrysene	<100 µg/kg	TM157		603	<100				
Fluoranthene	<100 µg/kg	TM157		862	<100				
Fluorene	<100 µg/kg	TM157		<100	<100				
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		280	<100				
Phenanthrene	<100 µg/kg	TM157		492	<100				
Pyrene	<100 µg/kg	TM157		690	<100				
Naphthalene	<100 µg/kg	TM157		<100	<100				
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2				
			Depth (m)	0.40	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	24/06/2013	24/06/2013				
			Sample Time	.	.				
			Date Received	25/06/2013	25/06/2013				
			SDG Ref	130625-29	130625-29				
			Lab Sample No.(s)	7648345	7648347				
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		85	104				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		112 M	628 M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M				
Benzene	<10 µg/kg	TM089		<10 M	<10 M				
Toluene	<2 µg/kg	TM089		3.2 M	<2 M				
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M				
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M				
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	10.4				
Aliphatics >C6-C8	<10 µg/kg	TM089		14.9	73.1				
Aliphatics >C8-C10	<10 µg/kg	TM089		20.2	195				
Aliphatics >C10-C12	<10 µg/kg	TM089		27.7	129				
Aliphatics >C12-C16	<100 µg/kg	TM173		6480	3800				
Aliphatics >C16-C21	<100 µg/kg	TM173		11600	2100				
Aliphatics >C21-C35	<100 µg/kg	TM173		29400	3900				
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	4390				
Total Aliphatics >C12-C44	<100 µg/kg	TM173		47500	14200				
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089		21.3	135				
Aromatics >EC10-EC12	<10 µg/kg	TM089		18.1	85.8				
Aromatics >EC12-EC16	<100 µg/kg	TM173		25400	1630				
Aromatics >EC16-EC21	<100 µg/kg	TM173		180000	3700				
Aromatics >EC21-EC35	<100 µg/kg	TM173		447000	9420				
Aromatics >EC35-EC44	<100 µg/kg	TM173		128000	2450				
Aromatics >EC40-EC44	<100 µg/kg	TM173		41900	<100				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		780000	17200				
Total Aliphatics >C5-35	<100 µg/kg	TM173		47600	10200				
Total Aromatics >C5-35	<100 µg/kg	TM173		652000	15000				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		700000	25200				

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

TPH CWG (S)

Results Legend		Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2				
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.40	2.80				
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid				
tot.unfilt	Total / unfiltered sample.	Date Sampled	24/06/2013	24/06/2013				
*	Subcontracted test.	Sample Time	.	.				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	25/06/2013	25/06/2013				
		SDG Ref	130625-29	130625-29				
(F)	Trigger breach confirmed	Lab Sample No.(s)	7648345	7648347				
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	827000	32000				

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2
			Depth (m)	0.40	2.80
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013
			Sample Time	.	.
			Date Received	25/06/2013	25/06/2013
			SDG Ref	130625-29	130625-29
			Lab Sample No.(s)	7648345	7648347
			AGS Reference		
Dibromofluoromethane**	%	TM116		32 ♦	96.7
Toluene-d8**	%	TM116		99.5 ♦	106
4-Bromofluorobenzene**	%	TM116		117 ♦	105
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 ♦ M	<4 M
Chloromethane	<7 µg/kg	TM116		<7 ♦	<7
Vinyl Chloride	<10 µg/kg	TM116		<10 ♦	<10
Bromomethane	<13 µg/kg	TM116		<13 ♦ M	<13 M
Chloroethane	<14 µg/kg	TM116		<14 ♦ M	<14 M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 ♦ M	<6 M
1,1-Dichloroethene	<10 µg/kg	TM116		<10 ♦ #	<10 #
Carbon Disulphide	<7 µg/kg	TM116		<7 ♦ M	<7 M
Dichloromethane	<10 µg/kg	TM116		<10 ♦ #	<10 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 ♦ M	<11 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<11 ♦ M	<11 M
1,1-Dichloroethane	<8 µg/kg	TM116		<8 ♦ M	<8 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<5 ♦ M	<5 M
2,2-Dichloropropane	<12 µg/kg	TM116		<12 ♦ M	<12 M
Bromochloromethane	<14 µg/kg	TM116		<14 ♦ M	<14 M
Chloroform	<8 µg/kg	TM116		<8 ♦ M	<8 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<7 ♦ M	<7 M
1,1-Dichloropropene	<11 µg/kg	TM116		<11 ♦ M	<11 M
Carbontetrachloride	<14 µg/kg	TM116		<14 ♦ M	<14 M
1,2-Dichloroethane	<5 µg/kg	TM116		<5 ♦ M	<5 M
Benzene	<9 µg/kg	TM116		<9 ♦ M	19.7 M
Trichloroethene	<9 µg/kg	TM116		<9 ♦ M	<9 M
1,2-Dichloropropane	<12 µg/kg	TM116		<12 ♦ M	<12 M
Dibromomethane	<9 µg/kg	TM116		<9 ♦ M	<9 M
Bromodichloromethane	<7 µg/kg	TM116		<7 ♦ M	<7 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<14 ♦ M	<14 M
Toluene	<5 µg/kg	TM116		7.53 ♦ M	13.2 M
trans-1,3-Dichloropropene	<100 µg/kg	TM116		<14 ♦	<14
1,1,2-Trichloroethane	<10 µg/kg	TM116		<10 ♦ M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2
			Depth (m)	0.40	2.80
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013
			Sample Time	.	.
			Date Received	25/06/2013	25/06/2013
			SDG Ref	130625-29	130625-29
			Lab Sample No.(s)	7648345	7648347
			AGS Reference		
1,3-Dichloropropane	<7 µg/kg	TM116		<7 ♦ #	<7 #
Tetrachloroethene	<5 µg/kg	TM116		<5 ♦ M	<5 M
Dibromochloromethane	<13 µg/kg	TM116		<13 ♦ M	<13 M
1,2-Dibromoethane	<12 µg/kg	TM116		<12 ♦ M	<12 M
Chlorobenzene	<5 µg/kg	TM116		<5 ♦ M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10 ♦ M	<10 M
Ethylbenzene	<4 µg/kg	TM116		5.74 ♦ M	<4 M
p/m-Xylene	<14 µg/kg	TM116		<14 ♦ #	<14 #
o-Xylene	<10 µg/kg	TM116		<10 ♦ M	<10 M
Styrene	<10 µg/kg	TM116		<10 ♦ M	<10 M
Bromoform	<10 µg/kg	TM116		<10 ♦ M	<10 M
Isopropylbenzene	<5 µg/kg	TM116		<5 ♦ M	<5 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10 ♦ #	<10 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<17 ♦ M	<17 M
Bromobenzene	<10 µg/kg	TM116		<10 ♦ M	<10 M
Propylbenzene	<11 µg/kg	TM116		<11 ♦ M	<11 M
2-Chlorotoluene	<9 µg/kg	TM116		<9 ♦ M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8 ♦ #	<8 #
4-Chlorotoluene	<12 µg/kg	TM116		<12 ♦ M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116		<12 ♦ #	<12 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<9 ♦ #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116		<10 ♦ M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116		<11 ♦ M	<11 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<6 ♦ M	<6 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5 ♦ M	<5 M
n-Butylbenzene	<10 µg/kg	TM116		<10 ♦ M	<10 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<12 ♦ M	<12 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 ♦ M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<15 ♦	<15
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<6 ♦ #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116		<12 ♦	<12
Naphthalene	<13 µg/kg	TM116		<13 ♦ M	<13 M

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT 2	PHS 28 PIT 2
			Depth (m)	0.40	2.80
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	24/06/2013	24/06/2013
			Sample Time	.	.
			Date Received	25/06/2013	25/06/2013
			SDG Ref	130625-29	130625-29
			Lab Sample No.(s)	7648345	7648347
			AGS Reference		
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<6 ♦ M	<6 M

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT 2 0.40 SOLID 24/06/2013 00:00:00 130625-29 7648345 TM048	04/07/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT 2 2.80 SOLID 24/06/2013 00:00:00 130625-29 7648347 TM048	04/07/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT 2 0.40 SOLID 24/06/2013 00:00:00 130625-29 7648345 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Test Completion Dates

Lab Sample No(s)	7648345	7648347
Customer Sample Ref.	PHS 28 PIT 2	PHS 28 PIT 2
AGS Ref.		
Depth	0.40	2.80
Type	SOLID	SOLID
Asbestos ID in Solid Samples	05-Jul-2013	05-Jul-2013
Asbestos Quantification - Full	31-Jul-2013	
EPH CWG (Aliphatic) GC (S)	05-Jul-2013	05-Jul-2013
EPH CWG (Aromatic) GC (S)	05-Jul-2013	05-Jul-2013
GRO by GC-FID (S)	08-Jul-2013	08-Jul-2013
Metals in solid samples by OES	04-Jul-2013	04-Jul-2013
pH	02-Jul-2013	02-Jul-2013
Sample description	01-Jul-2013	01-Jul-2013
Semi Volatile Organic Compounds	05-Jul-2013	05-Jul-2013
Total Organic Carbon	04-Jul-2013	04-Jul-2013
TPH CWG GC (S)	08-Jul-2013	08-Jul-2013
VOC MS (S)	10-Jul-2013	08-Jul-2013

SDG:	130625-29	**Location:**	Coed Darcy	**Order Number:**	CD0444
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	235567
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	232558

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Adam Putt

CERTIFICATE OF ANALYSIS

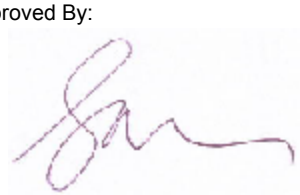
Date:	04 July 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130620-29
Your Reference:	Phase 28
Location:	Coed Darcy
Report No:	231743

We received 2 samples on Thursday June 20, 2013 and 2 of these samples were scheduled for analysis which was completed on Thursday July 04, 2013. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
7620117	PHS 28 PIT1		0.30	19/06/2013
7620118	PHS 28 PIT1		2.80	19/06/2013

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			7620117	PHS 28 PIT1		0.30	250g Amber Jar (AL / 400g Tub (ALE214) / 60g VOC (ALE215) / 250g Amber Jar (AL / 400g Tub (ALE214) / 60g VOC (ALE215)
			7620118	PHS 28 PIT1		2.80	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 2		X			X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 2	X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 2	X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 2			X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 2	X			X	
pH	All	NDPs: 0 Tests: 2		X			X
Sample description	All	NDPs: 0 Tests: 2	X			X	
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 2	X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 2	X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 2	X			X	
VOC MS (S)	All	NDPs: 0 Tests: 2			X		X

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
7620117	PHS 28 PIT1	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	None
7620118	PHS 28 PIT1	2.80	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT1	PHS 28 PIT1
			Depth (m)	0.30	2.80
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	19/06/2013	19/06/2013
			Sample Time	.	.
			Date Received	20/06/2013	20/06/2013
			SDG Ref	130620-29	130620-29
			Lab Sample No.(s)	7620117	7620118
			AGS Reference		
Soil Organic Matter (SOM)	<0.35 %	TM132		3.79 #	1.03 #
pH	1 pH Units	TM133		11 M	11.1 M
Arsenic	<0.6 mg/kg	TM181		10.1 M	5.58 M
Cadmium	<0.02 mg/kg	TM181		0.635 M	0.0392 M
Chromium	<0.9 mg/kg	TM181		51.4 M	21.9 M
Copper	<1.4 mg/kg	TM181		21.9 M	11.5 M
Lead	<0.7 mg/kg	TM181		62.7 M	14.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		11.2 M	16 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		127 M	47.7 M

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT1	PHS 28 PIT1				
			Depth (m)	0.30	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	19/06/2013	19/06/2013				
			Sample Time	.	.				
			Date Received	20/06/2013	20/06/2013				
			SDG Ref	130620-29	130620-29				
			Lab Sample No.(s)	7620117	7620118				
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100				
Pentachlorophenol	<100 µg/kg	TM157		<100	<100				
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100				
Nitrobenzene	<100 µg/kg	TM157		<100	<100				
Isophorone	<100 µg/kg	TM157		<100	<100				
Hexachloroethane	<100 µg/kg	TM157		<100	<100				
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100				
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100				
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100				
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100				
Diethyl phthalate	<100 µg/kg	TM157		<100	<100				
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100				
Dibenzofuran	<100 µg/kg	TM157		<100	<100				
Carbazole	<100 µg/kg	TM157		<100	<100				
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100				
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100				
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100				
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100				
Azobenzene	<100 µg/kg	TM157		<100	<100				
4-Nitrophenol	<100 µg/kg	TM157		<100	<100				
4-Nitroaniline	<100 µg/kg	TM157		<100	<100				
4-Methylphenol	<100 µg/kg	TM157		<100	<100				
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100				
4-Chloroaniline	<100 µg/kg	TM157		<100	<100				
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100				
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100				
3-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Nitrophenol	<100 µg/kg	TM157		<100	<100				
2-Nitroaniline	<100 µg/kg	TM157		<100	<100				
2-Methylphenol	<100 µg/kg	TM157		<100	<100				
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT1	PHS 28 PIT1				
			Depth (m)	0.30	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	19/06/2013	19/06/2013				
			Sample Time	.	.				
			Date Received	20/06/2013	20/06/2013				
			SDG Ref	130620-29	130620-29				
			Lab Sample No.(s)	7620117	7620118				
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100				
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100				
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100				
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100				
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100				
Acenaphthylene	<100 µg/kg	TM157		<100	<100				
Acenaphthene	<100 µg/kg	TM157		<100	<100				
Anthracene	<100 µg/kg	TM157		122	<100				
Benzo(a)anthracene	<100 µg/kg	TM157		580	<100				
Benzo(b)fluoranthene	<100 µg/kg	TM157		722	<100				
Benzo(k)fluoranthene	<100 µg/kg	TM157		550	<100				
Benzo(a)pyrene	<100 µg/kg	TM157		665	<100				
Benzo(g,h,i)perylene	<100 µg/kg	TM157		420	<100				
Chrysene	<100 µg/kg	TM157		753	<100				
Fluoranthene	<100 µg/kg	TM157		929	<100				
Fluorene	<100 µg/kg	TM157		<100	<100				
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		402	<100				
Phenanthrene	<100 µg/kg	TM157		471	<100				
Pyrene	<100 µg/kg	TM157		822	<100				
Naphthalene	<100 µg/kg	TM157		<100	<100				
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		114	<100				

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT1	PHS 28 PIT1				
			Depth (m)	0.30	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	19/06/2013	19/06/2013				
			Sample Time	.	.				
			Date Received	20/06/2013	20/06/2013				
			SDG Ref	130620-29	130620-29				
			Lab Sample No.(s)	7620117	7620118				
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		101	76				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		97.5 M	55.4 M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 M	<5 M				
Benzene	<10 µg/kg	TM089		<10 M	<10 M				
Toluene	<2 µg/kg	TM089		2.35 M	3.39 M				
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M				
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M				
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10				
Aliphatics >C6-C8	<10 µg/kg	TM089		11.7	<10				
Aliphatics >C8-C10	<10 µg/kg	TM089		16.4	<10				
Aliphatics >C10-C12	<10 µg/kg	TM089		27	11.3				
Aliphatics >C12-C16	<100 µg/kg	TM173		8600	2830				
Aliphatics >C16-C21	<100 µg/kg	TM173		34700	6020				
Aliphatics >C21-C35	<100 µg/kg	TM173		57800	18000				
Aliphatics >C35-C44	<100 µg/kg	TM173		20900	3600				
Total Aliphatics >C12-C44	<100 µg/kg	TM173		122000	30400				
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089		16.4	13.6				
Aromatics >EC10-EC12	<10 µg/kg	TM089		17.6	<10				
Aromatics >EC12-EC16	<100 µg/kg	TM173		6050	2530				
Aromatics >EC16-EC21	<100 µg/kg	TM173		19100	3650				
Aromatics >EC21-EC35	<100 µg/kg	TM173		68900	11900				
Aromatics >EC35-EC44	<100 µg/kg	TM173		52200	1870				
Aromatics >EC40-EC44	<100 µg/kg	TM173		25200	<100				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		146000	19900				
Total Aliphatics >C5-35	<100 µg/kg	TM173		101000	26800				
Total Aromatics >C5-35	<100 µg/kg	TM173		94100	18100				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		195000	44900				

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	PHS 28 PIT1	PHS 28 PIT1				
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.30	2.80				
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid				
tot.unfilt	Total / unfiltered sample.	Date Sampled	19/06/2013	19/06/2013				
*	Subcontracted test.	Sample Time	.	.				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	20/06/2013	20/06/2013				
		SDG Ref	130620-29	130620-29				
(F)	Trigger breach confirmed	Lab Sample No.(s)	7620117	7620118				
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	268000	50400				

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT1	PHS 28 PIT1				
			Depth (m)	0.30	2.80				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	19/06/2013	19/06/2013				
			Sample Time	.	.				
			Date Received	20/06/2013	20/06/2013				
			SDG Ref	130620-29	130620-29				
			Lab Sample No.(s)	7620117	7620118				
			AGS Reference						
Dibromofluoromethane**	%	TM116		97.6	92.6				
Toluene-d8**	%	TM116		97.2	95.9				
4-Bromofluorobenzene**	%	TM116		123	125				
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 M	<4 M				
Chloromethane	<7 µg/kg	TM116		<14	<7				
Vinyl Chloride	<10 µg/kg	TM116		<20	<10				
Bromomethane	<13 µg/kg	TM116		<26 M	<13 M				
Chloroethane	<14 µg/kg	TM116		<28 M	<14 M				
Trichlorofluorormethane	<6 µg/kg	TM116		<12 M	<6 M				
1,1-Dichloroethene	<10 µg/kg	TM116		<20 #	<10 #				
Carbon Disulphide	<7 µg/kg	TM116		<14 M	<7 M				
Dichloromethane	<10 µg/kg	TM116		<20 #	<10 #				
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 M	<11 M				
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 M	<11 M				
1,1-Dichloroethane	<8 µg/kg	TM116		<16 M	<8 M				
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 M	<5 M				
2,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<12 M				
Bromochloromethane	<14 µg/kg	TM116		<28 M	<14 M				
Chloroform	<8 µg/kg	TM116		<16 M	<8 M				
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 M	<7 M				
1,1-Dichloropropene	<11 µg/kg	TM116		<22 M	<11 M				
Carbontetrachloride	<14 µg/kg	TM116		<28 M	<14 M				
1,2-Dichloroethane	<5 µg/kg	TM116		<10 M	<5 M				
Benzene	<9 µg/kg	TM116		<18 M	<9 M				
Trichloroethene	<9 µg/kg	TM116		<18 M	<9 M				
1,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<12 M				
Dibromomethane	<9 µg/kg	TM116		<18 M	<9 M				
Bromodichloromethane	<7 µg/kg	TM116		<14 M	<7 M				
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 M	<14 M				
Toluene	<5 µg/kg	TM116		24 M	8.41 M				
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<28	<14				
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 M	<10 M				

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	PHS 28 PIT1	PHS 28 PIT1			
			Depth (m)	0.30	2.80			
			Sample Type	Soil/Solid	Soil/Solid			
			Date Sampled	19/06/2013	19/06/2013			
			Sample Time	.	.			
			Date Received	20/06/2013	20/06/2013			
			SDG Ref	130620-29	130620-29			
			Lab Sample No.(s)	7620117	7620118			
			AGS Reference					
1,3-Dichloropropane	<7 µg/kg	TM116		<14 #	<7 #			
Tetrachloroethene	<5 µg/kg	TM116		<10 M	<5 M			
Dibromochloromethane	<13 µg/kg	TM116		<26 M	<13 M			
1,2-Dibromoethane	<12 µg/kg	TM116		<24 M	<12 M			
Chlorobenzene	<5 µg/kg	TM116		<10 M	<5 M			
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 M	<10 M			
Ethylbenzene	<4 µg/kg	TM116		<8 M	<4 M			
p/m-Xylene	<14 µg/kg	TM116		<28 #	<14 #			
o-Xylene	<10 µg/kg	TM116		<20 M	<10 M			
Styrene	<10 µg/kg	TM116		<20 M	<10 M			
Bromoform	<10 µg/kg	TM116		<20 M	<10 M			
Isopropylbenzene	<5 µg/kg	TM116		<10 M	<5 M			
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 #	<10 #			
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 M	<17 M			
Bromobenzene	<10 µg/kg	TM116		<20 M	<10 M			
Propylbenzene	<11 µg/kg	TM116		<22 M	<11 M			
2-Chlorotoluene	<9 µg/kg	TM116		<18 M	<9 M			
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<16 #	<8 #			
4-Chlorotoluene	<12 µg/kg	TM116		<24 M	<12 M			
tert-Butylbenzene	<12 µg/kg	TM116		<24 #	<12 #			
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<18 #	<9 #			
sec-Butylbenzene	<10 µg/kg	TM116		<20 M	<10 M			
4-Isopropyltoluene	<11 µg/kg	TM116		<22 M	<11 M			
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 M	<6 M			
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 M	<5 M			
n-Butylbenzene	<10 µg/kg	TM116		<20 M	<10 M			
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 M	<12 M			
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 M	<14 M			
Tert-amyl methyl ether	<15 µg/kg	TM116		<30	<15			
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 #	<6 #			
Hexachlorobutadiene	<12 µg/kg	TM116		<24	<12			
Naphthalene	<13 µg/kg	TM116		<26 M	<13 M			

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

VOC MS (S)

Results Legend		Customer Sample R	PHS 28 PIT1	PHS 28 PIT1
#	ISO17025 accredited.			
M	*m*CERTS accredited.			
aq	Aqueous / settled sample.			
diss.filt	Dissolved / filtered sample.			
tot.unfilt	Total / unfiltered sample.			
*	Subcontracted test.			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			
(F)	Trigger breach confirmed			
1-4&+§@	Sample deviation (see appendix)			
		Depth (m)	0.30	2.80
		Sample Type	Soil/Solid	Soil/Solid
		Date Sampled	19/06/2013	19/06/2013
		Sample Time	.	.
		Date Received	20/06/2013	20/06/2013
		SDG Ref	130620-29	130620-29
		Lab Sample No.(s)	7620117	7620118
		AGS Reference		

Component	LOD/Units	Method		
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<12 M	<6 M

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT1 0.30 SOLID 19/06/2013 00:00:00 130620-29 7620117 TM048	28/06/13	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	PHS 28 PIT1 2.80 SOLID 19/06/2013 00:00:00 130620-29 7620118 TM048	28/06/13	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	7620117	7620118
Customer Sample Ref.	PHS 28 PIT1	PHS 28 PIT1
AGS Ref.		
Depth	0.30	2.80
Type	SOLID	SOLID
Asbestos ID in Solid Samples	01-Jul-2013	01-Jul-2013
EPH CWG (Aliphatic) GC (S)	01-Jul-2013	02-Jul-2013
EPH CWG (Aromatic) GC (S)	01-Jul-2013	02-Jul-2013
GRO by GC-FID (S)	03-Jul-2013	02-Jul-2013
Metals in solid samples by OES	02-Jul-2013	02-Jul-2013
pH	25-Jun-2013	25-Jun-2013
Sample description	24-Jun-2013	24-Jun-2013
Semi Volatile Organic Compounds	28-Jun-2013	28-Jun-2013
Total Organic Carbon	04-Jul-2013	04-Jul-2013
TPH CWG GC (S)	03-Jul-2013	02-Jul-2013
VOC MS (S)	04-Jul-2013	04-Jul-2013

SDG:	130620-29	**Location:**	Coed Darcy	**Order Number:**	CD0440
Job:	H_ATKINS_LDC-170	**Customer:**	Atkins Global Ltd	**Report Number:**	231743
Client Reference:	Phase 28	**Attention:**	Adam Putt	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Attention: Alex Mann

CERTIFICATE OF ANALYSIS

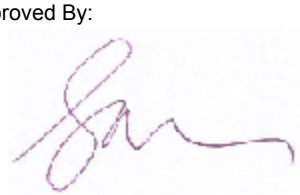
Date:	03 April 2012
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	120324-35
Your Reference:	
Location:	Coed Darcy Urban Village
Report No:	176467

We received 8 samples on Saturday March 24, 2012 and 8 of these samples were scheduled for analysis which was completed on Tuesday April 03, 2012. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5360955	DAWN C 1			23/03/2012
5360956	DAWN C 2			23/03/2012
5360957	DAWN C 3			23/03/2012
5360959	DAWN C 4			23/03/2012
5360960	DAWN C 5			23/03/2012
5360961	DAWN C 6			23/03/2012
5360963	HAWK C 1			23/03/2012
5360969	HAWK C 2			23/03/2012

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		5360955	DAWN C 1			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		5360963	HAWK C 1			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		5360956	DAWN C 2			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		5360969	HAWK C 2			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		5360957	DAWN C 3			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		5360959	DAWN C 4			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		5360960	DAWN C 5			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		5360961	DAWN C 6			250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 3				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 8				
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 8				
GRO by GC-FID (S)	All	NDPs: 0 Tests: 8				
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 8				
	Cadmium	NDPs: 0 Tests: 8				
	Chromium	NDPs: 0 Tests: 8				
	Copper	NDPs: 0 Tests: 8				
	Lead	NDPs: 0 Tests: 8				
	Mercury	NDPs: 0 Tests: 8				
	Nickel	NDPs: 0 Tests: 8				
	Selenium	NDPs: 0 Tests: 8				
	Vanadium	NDPs: 0 Tests: 8				
	Zinc	NDPs: 0 Tests: 8				
pH	All	NDPs: 0 Tests: 8				

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			5360955	DAWN C 1			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5360963	HAWK C 1			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5360956	DAWN C 2			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5360969	HAWK C 2			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5360957	DAWN C 3			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5360959	DAWN C 4			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5360960	DAWN C 5			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5360961	DAWN C 6			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Sample description	All	NDPs: 0 Tests: 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 8		X		X		X		X		X		X		X		X		X		X		X

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
5360955	DAWN C 1		Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
5360956	DAWN C 2		Dark Brown	Loamy Sand	0.1 - 2 mm	Brick	Stones
5360957	DAWN C 3		Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
5360959	DAWN C 4		Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
5360960	DAWN C 5		Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
5360961	DAWN C 6		Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
5360963	HAWK C 1		Dark Brown	Sand	0.1 - 2 mm	Stones	None
5360969	HAWK C 2		Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C 1	DAWN C 2	DAWN C 3	DAWN C 4	DAWN C 5	DAWN C 6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012
			Date Received	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012
			SDG Ref	120324-35	120324-35	120324-35	120324-35	120324-35	120324-35
			Lab Sample No.(s)	5360955	5360956	5360957	5360959	5360960	5360961
			AGS Reference						
pH	1 pH Units	TM133		7.93 M	7.82 M	7.94 M	7.8 M	7.83 M	7.16 M
Arsenic	<0.6 mg/kg	TM181		22.1 M	49.7 M	37.6 M	18.3 M	29.5 M	14.1 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	1.1 M	0.474 M	0.585 M	0.207 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		18.5 M	19.1 M	16.7 M	16 M	18.3 M	19.4 M
Copper	<1.4 mg/kg	TM181		20.2 M	126 M	145 M	62.1 M	77.7 M	18.6 M
Lead	<0.7 mg/kg	TM181		17 M	156 M	78.4 M	48.6 M	40.8 M	16.6 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.946 M	0.141 M	1.78 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		17.2 M	29.1 M	22.8 M	27.6 M	17.7 M	14.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.01 #	<1 #	1.23 #	1.09 #
Vanadium	<0.2 mg/kg	TM181		24.1 #	21.8 #	22.2 #	18.1 #	24.6 #	27.2 #
Zinc	<1.9 mg/kg	TM181		60.3 M	471 M	322 M	125 M	110 M	57.7 M

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	HAWK C 1	HAWK C 2			
			Depth (m)	.	.			
			Sample Type	Soil/Solid	Soil/Solid			
			Date Sampled	23/03/2012	23/03/2012			
			Date Received	24/03/2012	24/03/2012			
			SDG Ref	120324-35	120324-35			
			Lab Sample No.(s)	5360963	5360969			
			AGS Reference					
pH	1 pH Units	TM133		8.68 M	8.58 M			
Arsenic	<0.6 mg/kg	TM181		36.3 M	51 M			
Cadmium	<0.02 mg/kg	TM181		0.585 M	2.8 M			
Chromium	<0.9 mg/kg	TM181		17.8 M	19.3 M			
Copper	<1.4 mg/kg	TM181		191 M	294 M			
Lead	<0.7 mg/kg	TM181		546 M	285 M			
Mercury	<0.14 mg/kg	TM181		0.141 M	0.238 M			
Nickel	<0.2 mg/kg	TM181		24.1 M	28.2 M			
Selenium	<1 mg/kg	TM181		<1 #	1.07 #			
Vanadium	<0.2 mg/kg	TM181		23.3 #	31.5 #			
Zinc	<1.9 mg/kg	TM181		1470 M	1280 M			

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C 1	DAWN C 2	DAWN C 3	DAWN C 4	DAWN C 5	DAWN C 6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012
			Date Received	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012
			SDG Ref	120324-35	120324-35	120324-35	120324-35	120324-35	120324-35
			Lab Sample No.(s)	5360955	5360956	5360957	5360959	5360960	5360961
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	260	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C 1	DAWN C 2	DAWN C 3	DAWN C 4	DAWN C 5	DAWN C 6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012
			Date Received	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012
			SDG Ref	120324-35	120324-35	120324-35	120324-35	120324-35	120324-35
			Lab Sample No.(s)	5360955	5360956	5360957	5360959	5360960	5360961
			AGS Reference						
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	154	<100	<100	<100
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	127	<100	165	<100	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	164	150	195	<100	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	117	<100	140	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		<100	141	118	154	<100	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	143	<100	<100	<100	<100
Chrysene	<100 µg/kg	TM157		<100	210	220	335	<100	<100
Fluoranthene	<100 µg/kg	TM157		<100	210	176	337	<100	<100
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		<100	180	423	319	187	<100
Pyrene	<100 µg/kg	TM157		<100	202	178	260	<100	<100
Naphthalene	<100 µg/kg	TM157		<100	<100	117	<100	<100	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	HAWK C 1	HAWK C 2				
			Depth (m)	.	.				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	23/03/2012	23/03/2012				
			Date Received	24/03/2012	24/03/2012				
			SDG Ref	120324-35	120324-35				
			Lab Sample No.(s)	5360963	5360969				
			AGS Reference						
Phenol	<100 ug/kg	TM157		384	<100				
Pentachlorophenol	<100 ug/kg	TM157		<100	<100				
n-Nitroso-n-dipropylamine	<100 ug/kg	TM157		<100	<100				
Nitrobenzene	<100 ug/kg	TM157		<100	<100				
Isophorone	<100 ug/kg	TM157		<100	<100				
Hexachloroethane	<100 ug/kg	TM157		<100	<100				
Hexachlorocyclopentadiene	<100 ug/kg	TM157		<100	<100				
Hexachlorobutadiene	<100 ug/kg	TM157		<100	<100				
Hexachlorobenzene	<100 ug/kg	TM157		<100	<100				
n-Dioctyl phthalate	<100 ug/kg	TM157		<100	<100				
Dimethyl phthalate	<100 ug/kg	TM157		<100	<100				
Diethyl phthalate	<100 ug/kg	TM157		<100	<100				
n-Dibutyl phthalate	<100 ug/kg	TM157		<100	<100				
Dibenzofuran	<100 ug/kg	TM157		5250	<100				
Carbazole	<100 ug/kg	TM157		2610	<100				
Butylbenzyl phthalate	<100 ug/kg	TM157		<100	<100				
bis(2-Ethylhexyl) phthalate	<100 ug/kg	TM157		<100	<100				
bis(2-Chloroethoxy)methane	<100 ug/kg	TM157		<100	<100				
bis(2-Chloroethyl)ether	<100 ug/kg	TM157		<100	<100				
Azobenzene	<100 ug/kg	TM157		<100	<100				
4-Nitrophenol	<100 ug/kg	TM157		<100	<100				
4-Nitroaniline	<100 ug/kg	TM157		<100	<100				
4-Methylphenol	<100 ug/kg	TM157		175	<100				
4-Chlorophenylphenylether	<100 ug/kg	TM157		<100	<100				
4-Chloroaniline	<100 ug/kg	TM157		<100	<100				
4-Chloro-3-methylphenol	<100 ug/kg	TM157		<100	<100				
4-Bromophenylphenylether	<100 ug/kg	TM157		<100	<100				
3-Nitroaniline	<100 ug/kg	TM157		<100	<100				
2-Nitrophenol	<100 ug/kg	TM157		<100	<100				
2-Nitroaniline	<100 ug/kg	TM157		<100	<100				
2-Methylphenol	<100 ug/kg	TM157		<100	<100				
1,2,4-Trichlorobenzene	<100 ug/kg	TM157		<100	<100				
2-Chlorophenol	<100 ug/kg	TM157		<100	<100				
2,6-Dinitrotoluene	<100 ug/kg	TM157		<100	<100				
2,4-Dinitrotoluene	<100 ug/kg	TM157		<100	<100				

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	HAWK C 1	HAWK C 2				
			Depth (m)	.	.				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	23/03/2012	23/03/2012				
			Date Received	24/03/2012	24/03/2012				
			SDG Ref	120324-35	120324-35				
			Lab Sample No.(s)	5360963	5360969				
			AGS Reference						
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100				
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100				
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100				
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100				
2-Methylnaphthalene	<100 µg/kg	TM157		783	<100				
Acenaphthylene	<100 µg/kg	TM157		3970	<100				
Acenaphthene	<100 µg/kg	TM157		1620	<100				
Anthracene	<100 µg/kg	TM157		39400	<100				
Benzo(a)anthracene	<100 µg/kg	TM157		40000	172				
Benzo(b)fluoranthene	<100 µg/kg	TM157		22900	228				
Benzo(k)fluoranthene	<100 µg/kg	TM157		28600	176				
Benzo(a)pyrene	<100 µg/kg	TM157		28600	197				
Benzo(g,h,i)perylene	<100 µg/kg	TM157		12900	160				
Chrysene	<100 µg/kg	TM157		37600	237				
Fluoranthene	<100 µg/kg	TM157		73800	299				
Fluorene	<100 µg/kg	TM157		12500	<100				
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		14000	128				
Phenanthrene	<100 µg/kg	TM157		78300	181				
Pyrene	<100 µg/kg	TM157		53900	271				
Naphthalene	<100 µg/kg	TM157		1390	<100				
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		5380	<100				

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C 1	DAWN C 2	DAWN C 3	DAWN C 4	DAWN C 5	DAWN C 6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012
			Date Received	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012
			SDG Ref	120324-35	120324-35	120324-35	120324-35	120324-35	120324-35
			Lab Sample No.(s)	5360955	5360956	5360957	5360959	5360960	5360961
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		78	40	30	32	71	88
GRO >C5-C12	<44 µg/kg	TM089		<44	1370	564	259	<44	<44
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		3.6 M	<2 M	4.64 M	4.6 M	2.42 M	3.66 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	4.68 M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	6.96 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	5.8 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	12.8	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	10.5	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	72.5	34.8	19.6	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	184	78.9	26.5	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	579	219	107	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173		2460	26400	8130	7610	5030	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		4250	61000	24000	22300	20900	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		13300	306000	86700	60900	53500	1840
Aliphatics >C35-C44	<100 µg/kg	TM173		3360	84600	31600	16400	34400	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		23400	478000	150000	107000	114000	1840
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	131	67.3	19.6	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	386	146	71.3	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173		20900	10400	20600	6970	6030	8460
Aromatics >EC16-EC21	<100 µg/kg	TM173		3800	27900	15200	9110	10500	2080
Aromatics >EC21-EC35	<100 µg/kg	TM173		10200	197000	81100	47600	52300	6680
Aromatics >EC35-EC44	<100 µg/kg	TM173		6090	82600	38600	22900	23000	4490
Aromatics >EC40-EC44	<100 µg/kg	TM173		2630	30800	15500	8350	8620	1820
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		41000	318000	156000	86600	91800	21700
Total Aliphatics >C5-35	<100 µg/kg	TM173		20100	394000	119000	90900	79400	1840
Total Aromatics >C5-35	<100 µg/kg	TM173		35000	236000	117000	63800	68900	17200
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		55000	630000	236000	155000	148000	19100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		64500	797000	306000	194000	206000	23600

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	HAWK C 1	HAWK C 2				
			Depth (m)	.	.				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	23/03/2012	23/03/2012				
			Date Received	24/03/2012	24/03/2012				
			SDG Ref	120324-35	120324-35				
			Lab Sample No.(s)	5360963	5360969				
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		45	54				
GRO >C5-C12	<44 µg/kg	TM089		<44	149				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #				
Benzene	<10 µg/kg	TM089		11.8 M	15.3 M				
Toluene	<2 µg/kg	TM089		8.58 M	9.86 M				
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M				
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M				
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	25.2				
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10				
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	24.1				
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	27.4				
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	26.3				
Aliphatics >C12-C16	<100 µg/kg	TM173		44200	3920				
Aliphatics >C16-C21	<100 µg/kg	TM173		16600	13400				
Aliphatics >C21-C35	<100 µg/kg	TM173		85100	69700				
Aliphatics >C35-C44	<100 µg/kg	TM173		33500	14000				
Total Aliphatics >C12-C44	<100 µg/kg	TM173		179000	101000				
Aromatics >EC5-EC7	<10 µg/kg	TM089		11.8	15.3				
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	24.1				
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	17.5				
Aromatics >EC12-EC16	<100 µg/kg	TM173		5100	14100				
Aromatics >EC16-EC21	<100 µg/kg	TM173		10300	10100				
Aromatics >EC21-EC35	<100 µg/kg	TM173		77800	46000				
Aromatics >EC35-EC44	<100 µg/kg	TM173		77900	26900				
Aromatics >EC40-EC44	<100 µg/kg	TM173		37400	11700				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		171000	97000				
Total Aliphatics >C5-35	<100 µg/kg	TM173		146000	87100				
Total Aromatics >C5-35	<100 µg/kg	TM173		93200	70300				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		239000	157000				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		350000	198000				

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C 1	DAWN C 2	DAWN C 3	DAWN C 4	DAWN C 5	DAWN C 6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012
			Date Received	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012
			SDG Ref	120324-35	120324-35	120324-35	120324-35	120324-35	120324-35
			Lab Sample No.(s)	5360955	5360956	5360957	5360959	5360960	5360961
			AGS Reference						
Dibromofluoromethane**	%	TM116		91.3	110	103	112	102	103
Toluene-d8**	%	TM116		98.5	99.6	94.9	99	94.4	93.6
4-Bromofluorobenzene**	%	TM116		99.2	116	107	119	120	112
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<80 M	<4 M	<8 M	<4 M	<4 M
Chloromethane	<7 µg/kg	TM116		<7	<140	<7	<14	<7	<7
Vinyl Chloride	<10 µg/kg	TM116		<10	<200	<10	<20	<10	<10
Bromomethane	<13 µg/kg	TM116		<13 M	<260 M	<13 M	<26 M	<13 M	<13 M
Chloroethane	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M	<14 M	<14 M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<120 M	<6 M	<12 M	<6 M	<6 M
1.1-Dichloroethene	<10 µg/kg	TM116		<10 #	<200 #	<10 #	<20 #	<10 #	<10 #
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<140 M	<7 M	<14 M	<7 M	<7 M
Dichloromethane	<10 µg/kg	TM116		<10 #	<200 #	<10 #	<20 #	<10 #	<10 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M	<11 M	<11 M
trans-1-2-Dichloroethene	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M	<11 M	<11 M
1.1-Dichloroethane	<8 µg/kg	TM116		<8 M	<160 M	<8 M	<16 M	<8 M	<8 M
cis-1-2-Dichloroethene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M	<5 M	<5 M
2.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M	<12 M	<12 M
Bromochloromethane	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M	<14 M	<14 M
Chloroform	<8 µg/kg	TM116		<8 M	<160 M	<8 M	<16 M	<8 M	<8 M
1.1.1-Trichloroethane	<7 µg/kg	TM116		<7 M	<140 M	<7 M	<14 M	<7 M	<7 M
1.1-Dichloropropene	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M	<11 M	<11 M
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M	<14 M	<14 M
1.2-Dichloroethane	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M	<5 M	<5 M
Benzene	<9 µg/kg	TM116		<9 M	<180 M	<9 M	<18 M	<9 M	<9 M
Trichloroethene	<9 µg/kg	TM116		<9 M	<180 M	<9 M	<18 M	<9 M	<9 M
1.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M	<12 M	<12 M
Dibromomethane	<9 µg/kg	TM116		<9 M	<180 M	<9 M	<18 M	<9 M	<9 M
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<140 M	<7 M	<14 M	<7 M	<7 M
cis-1-3-Dichloropropene	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M	<14 M	<14 M
Toluene	<5 µg/kg	TM116		8.02 M	<100 M	<5 M	<10 M	<5 M	<5 M
trans-1-3-Dichloropropene	<14 µg/kg	TM116		<14	<280	<14	<28	<14	<14
1.1.2-Trichloroethane	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
1.3-Dichloropropane	<7 µg/kg	TM116		<7 #	<140 #	<7 #	<14 #	<7 #	<7 #
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M	<5 M	<5 M
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<260 M	<13 M	<26 M	<13 M	<13 M

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C 1	DAWN C 2	DAWN C 3	DAWN C 4	DAWN C 5	DAWN C 6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012	23/03/2012
			Date Received	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012	24/03/2012
			SDG Ref	120324-35	120324-35	120324-35	120324-35	120324-35	120324-35
			Lab Sample No.(s)	5360955	5360956	5360957	5360959	5360960	5360961
			AGS Reference						
1.2-Dibromoethane	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M	<12 M	<12 M
Chlorobenzene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M	<5 M	<5 M
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<80 M	<4 M	<8 M	<4 M	<4 M
p/m-Xylene	<14 µg/kg	TM116		<14 #	<280 #	<14 #	<28 #	<14 #	<14 #
o-Xylene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
Styrene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
Bromoform	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M	<5 M	<5 M
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<200 #	<10 #	<20 #	<10 #	<10 #
1.2.3-Trichloropropane	<17 µg/kg	TM116		<17 M	<340 M	<17 M	<34 M	<17 M	<17 M
Bromobenzene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
Propylbenzene	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M	<11 M	<11 M
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<180 M	<9 M	<18 M	<9 M	<9 M
1.3.5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<160 #	<8 #	<16 #	<8 #	<8 #
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M	<12 M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<240 #	<12 #	<24 #	<12 #	<12 #
1.2.4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<180 #	<9 #	<18 #	<9 #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<220 M	<11 M	<22 M	<11 M	<11 M
1.3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<120 M	<6 M	<12 M	<6 M	<6 M
1.4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<100 M	<5 M	<10 M	<5 M	<5 M
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<200 M	<10 M	<20 M	<10 M	<10 M
1.2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<240 M	<12 M	<24 M	<12 M	<12 M
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<280 M	<14 M	<28 M	<14 M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<300	<15	<30	<15	<15
1.2.4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<120 #	<6 #	<12 #	<6 #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<240	<12	<24	<12	<12
Naphthalene	<13 µg/kg	TM116		<13 M	<260 M	<13 M	<26 M	<13 M	<13 M
1.2.3-Trichlorobenzene	<6 µg/kg	TM116		<6 M	<120 M	<6 M	<12 M	<6 M	<6 M

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	HAWK C 1	HAWK C 2				
			Depth (m)	.	.				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	23/03/2012	23/03/2012				
			Date Received	24/03/2012	24/03/2012				
			SDG Ref	120324-35	120324-35				
			Lab Sample No.(s)	5360963	5360969				
			AGS Reference						
Dibromofluoromethane**	%	TM116		93.1	112				
Toluene-d8**	%	TM116		93.9	98.1				
4-Bromofluorobenzene**	%	TM116		128	130				
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<8 M				
Chloromethane	<7 µg/kg	TM116		<7	<14				
Vinyl Chloride	<10 µg/kg	TM116		<10	<20				
Bromomethane	<13 µg/kg	TM116		<13 M	<26 M				
Chloroethane	<14 µg/kg	TM116		<14 M	<28 M				
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<12 M				
1.1-Dichloroethene	<10 µg/kg	TM116		<10 #	<20 #				
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<14 M				
Dichloromethane	<10 µg/kg	TM116		<10 #	<20 #				
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<22 M				
trans-1-2-Dichloroethene	<11 µg/kg	TM116		<11 M	<22 M				
1.1-Dichloroethane	<8 µg/kg	TM116		<8 M	<16 M				
cis-1-2-Dichloroethene	<5 µg/kg	TM116		<5 M	<10 M				
2.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<24 M				
Bromochloromethane	<14 µg/kg	TM116		<14 M	<28 M				
Chloroform	<8 µg/kg	TM116		<8 M	<16 M				
1.1.1-Trichloroethane	<7 µg/kg	TM116		<7 M	<14 M				
1.1-Dichloropropene	<11 µg/kg	TM116		<11 M	<22 M				
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<28 M				
1.2-Dichloroethane	<5 µg/kg	TM116		<5 M	<10 M				
Benzene	<9 µg/kg	TM116		19.6 M	27.1 M				
Trichloroethene	<9 µg/kg	TM116		48.7 M	186 M				
1.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<24 M				
Dibromomethane	<9 µg/kg	TM116		<9 M	<18 M				
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<14 M				
cis-1-3-Dichloropropene	<14 µg/kg	TM116		<14 M	<28 M				
Toluene	<5 µg/kg	TM116		13.2 M	15 M				
trans-1-3-Dichloropropene	<14 µg/kg	TM116		<14	<28				
1.1.2-Trichloroethane	<10 µg/kg	TM116		<10 M	<20 M				
1.3-Dichloropropane	<7 µg/kg	TM116		<7 #	<14 #				
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<10 M				
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<26 M				

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	HAWK C 1	HAWK C 2				
			Depth (m)	.	.				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	23/03/2012	23/03/2012				
			Date Received	24/03/2012	24/03/2012				
			SDG Ref	120324-35	120324-35				
			Lab Sample No.(s)	5360963	5360969				
			AGS Reference						
1.2-Dibromoethane	<12 µg/kg	TM116		<12 M	<24 M				
Chlorobenzene	<5 µg/kg	TM116		<5 M	<10 M				
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<20 M				
Ethylbenzene	<4 µg/kg	TM116		<4 M	<8 M				
p/m-Xylene	<14 µg/kg	TM116		<14 #	<28 #				
o-Xylene	<10 µg/kg	TM116		<10 M	<20 M				
Styrene	<10 µg/kg	TM116		<10 M	<20 M				
Bromoform	<10 µg/kg	TM116		<10 M	<20 M				
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<10 M				
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<20 #				
1.2.3-Trichloropropane	<17 µg/kg	TM116		<17 M	<34 M				
Bromobenzene	<10 µg/kg	TM116		<10 M	<20 M				
Propylbenzene	<11 µg/kg	TM116		<11 M	<22 M				
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<18 M				
1.3.5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<16 #				
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<24 M				
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<24 #				
1.2.4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<18 #				
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<20 M				
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<22 M				
1.3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<12 M				
1.4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<10 M				
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<20 M				
1.2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<24 M				
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<28 M				
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<30				
1.2.4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<12 #				
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<24				
Naphthalene	<13 µg/kg	TM116		<13 M	<26 M				
1.2.3-Trichlorobenzene	<6 µg/kg	TM116		<6 M	<12 M				

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Asbestos Identification - Soil

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	DAWN C 2 NS Z SOLID 23/03/2012 00:00:00 120324-35 5,360,956 TM048	29/03/12	Kevin Bowron	Loose Fibres in Soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	DAWN C 4 NS Z SOLID 23/03/2012 00:00:00 120324-35 5,360,959 TM048	29/03/12	Kevin Bowron	Loose Fibres in Soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	HAWK C 2 NS Z SOLID 23/03/2012 00:00:00 120324-35 5,360,969 TM048	29/03/12	Kevin Bowron	Loose Fibres in Soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	5360955	5360956	5360957	5360959	5360960	5360961	5360963	5360969
Customer Sample Ref.	DAWN C 1	DAWN C 2	DAWN C 3	DAWN C 4	DAWN C 5	DAWN C 6	HAWK C 1	HAWK C 2
AGS Ref.								
Depth								
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)		29-Mar-2012		29-Mar-2012				29-Mar-2012
EPH CWG (Aliphatic) GC (S)	29-Mar-2012	03-Apr-2012	29-Mar-2012	03-Apr-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	03-Apr-2012
EPH CWG (Aromatic) GC (S)	29-Mar-2012	03-Apr-2012	29-Mar-2012	03-Apr-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	03-Apr-2012
GRO by GC-FID (S)	28-Mar-2012	31-Mar-2012	30-Mar-2012	31-Mar-2012	28-Mar-2012	28-Mar-2012	30-Mar-2012	31-Mar-2012
Metals by iCap-OES (Soil)	29-Mar-2012	02-Apr-2012	29-Mar-2012	02-Apr-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	02-Apr-2012
pH	29-Mar-2012	30-Mar-2012	29-Mar-2012	30-Mar-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	30-Mar-2012
Sample description	27-Mar-2012	28-Mar-2012	27-Mar-2012	28-Mar-2012	27-Mar-2012	27-Mar-2012	27-Mar-2012	29-Mar-2012
Semi Volatile Organic Compounds	29-Mar-2012	02-Apr-2012	30-Mar-2012	02-Apr-2012	30-Mar-2012	29-Mar-2012	30-Mar-2012	02-Apr-2012
TPH CWG GC (S)	29-Mar-2012	03-Apr-2012	30-Mar-2012	03-Apr-2012	29-Mar-2012	29-Mar-2012	30-Mar-2012	03-Apr-2012
VOC MS (S)	29-Mar-2012	02-Apr-2012	29-Mar-2012	02-Apr-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	02-Apr-2012

SDG:	120324-35	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0231
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	176467
Client Reference:		**Attention:**	Alex Mann	**Superseded Report:**	

Appendix

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D&C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DCM	SOXTHERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
ELEMENTAL SULPHUR	D&C	DCM	SOXTHERM	HPLC
PHENOLS BY GCMS	WET	DCM	SOXTHERM	GC-MS
HERBICIDES	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
PESTICIDES	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (MIN OIL)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (CLEANED UP)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG BY GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB AROCLOR 1254 / PCB CON	D&C	HEXANE:ACETONE	END OVER END	GC-MS
POLYAROMATIC HYDROCARBONS (MS)	WET	HEXANE:ACETONE	MICROWAVE TM218.	GC-MS
>C6-C40	WET	HEXANE:ACETONE	SHAKER	GC-FID
POLYAROMATIC HYDROCARBONS RAPID GC	WET	HEXANE:ACETONE	SHAKER	GC-FID
SEMI VOLATILE ORGANIC COMPOUNDS	WET	DCM:ACETONE	SONICATE	GC-MS

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB AROCLOR 1254	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
SVOC	DCM	LIQUID/LIQUID SHAKE	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PESTOC POPP	DCM	LIQUID/LIQUID SHAKE	GC MS
TRIAZINE HERBS	DCM	LIQUID/LIQUID SHAKE	GC MS
PHENOLS MS	ACETONE	SOLID PHASE EXTRACTION	GC MS
TPH by INFRARED (IR)	TCE	STIRRED EXTRACTION (STIR-BAR)	IR
MINERAL OIL by IR	TCE	STIRRED EXTRACTION (STIR-BAR)	IR
GLYCOLS	NONE	DIRECT INJECTION	GC FID

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials or those identified as potentially asbestos containing during sample description which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	12 April 2012
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	120328-24
Your Reference:	Weekly Samples
Location:	Coed Darcy Urban Village
Report No:	177451

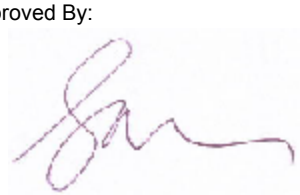
This report has been revised and directly supersedes 176553 in its entirety.

We received 10 samples on Wednesday March 28, 2012 and 10 of these samples were scheduled for analysis which was completed on Thursday April 12, 2012. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5371429	36" SEWER			27/03/2012
5371435	DAWN C10			28/03/2012
5371436	DAWN C11			28/03/2012
5371439	DAWN C12			28/03/2012
5371430	DAWN C7			28/03/2012
5371431	DAWN C8			28/03/2012
5371434	DAWN C9			28/03/2012
5371427	NSR IN			27/03/2012
5371428	NSR OUT			27/03/2012
5371838	W3			27/03/2012

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

LEACH

Results Legend

X **Test**

N **No Determination Possible**

Lab Sample No(s)			5371427	5371428	5371838	5371429
Customer Sample Reference			NSR IN	NSR OUT	W3	36" SEWER
AGS Reference						
Depth (m)						
Container			1l green glass bottle / 1lplastic (ALE221) / Vial (ALE297)	1l green glass bottle / 1lplastic (ALE221) / Vial (ALE297)	1l green glass bottle / 1lplastic (ALE221) / H2SO4 (ALE244) / HNO3 Filtered (ALE / Vial (ALE297)	1l green glass bottle / 1lplastic (ALE221) / Vial (ALE297)
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 4	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 4	X	X	X	X
BOD True Total	All	NDPs: 0 Tests: 4	X	X	X	X
COD Unfiltered	All	NDPs: 0 Tests: 4	X	X	X	X
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 4	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 4	X	X	X	X
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 4	X	X	X	X
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 4	X	X	X	X
GRO by GC-FID (W)	All	NDPs: 0 Tests: 4	X	X	X	X
pH Value	All	NDPs: 0 Tests: 4	X	X	X	X
Suspended Solids	All	NDPs: 0 Tests: 4	X	X	X	X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 4	X	X	X	X
TPH CWG (W)	All	NDPs: 0 Tests: 4	X	X	X	X
VOC MS (W)	All	NDPs: 0 Tests: 4	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			5371430	DAWN C7			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371431	DAWN C8			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371434	DAWN C9			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371435	DAWN C10			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371436	DAWN C11			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371439	DAWN C12			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 6	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 6	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 6	X	X	X	X	X	X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Cadmium	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Chromium	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Copper	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Lead	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Mercury	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Nickel	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Selenium	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Vanadium	NDPs: 0 Tests: 6	X	X	X	X	X	X
	Zinc	NDPs: 0 Tests: 6	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 6	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 6	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			5371430	DAWN C7			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371431	DAWN C8			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371434	DAWN C9			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371435	DAWN C10			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371436	DAWN C11			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			5371439	DAWN C12			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 6	X		X		X			X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 6	X		X		X			X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 6		X		X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
5371430	DAWN C7		Dark Brown	N/A	0.1 - 2 mm	Stones	None
5371431	DAWN C8		Dark Brown	N/A	0.1 - 2 mm	Stones	None
5371434	DAWN C9		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
5371435	DAWN C10		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
5371436	DAWN C11		Dark Brown	Sandy Loam	0.1 - 2 mm	Coal fragments	Stones
5371439	DAWN C12		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C7	DAWN C8	DAWN C9	DAWN C10	DAWN C11	DAWN C12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			SDG Ref	120328-24	120328-24	120328-24	120328-24	120328-24	120328-24
			Lab Sample No.(s)	5371430	5371431	5371434	5371435	5371436	5371439
			AGS Reference						
pH	1 pH Units	TM133		8.71 #	8.98 #	9.27 M	9.3 M	8.73 M	9.23 M
Arsenic	<0.6 mg/kg	TM181		13.9 #	11.7 #	15.9 M	12.3 M	15.8 M	12.7 M
Cadmium	<0.02 mg/kg	TM181		<0.02 #	1.34 #	0.0294 M	<0.02 M	0.063 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		10.9 #	13.5 #	11.7 M	10.4 M	13.7 M	12.1 M
Copper	<1.4 mg/kg	TM181		46.1 #	30.3 #	51.8 M	38.7 M	65 M	46.5 M
Lead	<0.7 mg/kg	TM181		47.6 #	55.6 #	60 M	35.5 M	65.9 M	39.5 M
Mercury	<0.14 mg/kg	TM181		<0.14 #	<0.14 #	0.478 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		35.4 #	80.3 #	33.9 M	33.5 M	43.1 M	35.3 M
Selenium	<1 mg/kg	TM181		<1 #	1.24 #	1.14 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.9 #	26.4 #	15.7 #	12.7 #	18.4 #	14.4 #
Zinc	<1.9 mg/kg	TM181		116 #	137 #	159 M	105 M	171 M	122 M

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	36" SEWER	NSR IN	NSR OUT	W3		
			Depth (m)	.	.	.	.		
			Sample Type	Saline A	Saline A	Saline A	Saline A		
			Date Sampled	27/03/2012	27/03/2012	27/03/2012	27/03/2012		
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012		
			SDG Ref	120328-24	120328-24	120328-24	120328-24		
			Lab Sample No.(s)	5371429	5371427	5371428	5371838		
			AGS Reference						
Suspended solids, Total	<2 mg/l	TM022		2.5 #	11 #	4.5 #	14.5 #		
BOD, unfiltered	<1 mg/l	TM045		3.27 #	<2 #	2.61 #	2.49 #		
Ammoniacal Nitrogen as NH4	<0.3 mg/l	TM099		0.417 #	<0.3 #	0.598 #	<0.3 #		
COD, unfiltered	<7 mg/l	TM107		32.5 #	31.9 #	35.8 #	40.6 #		
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120		0.617 #	0.512 #	0.377 #	0.393 #		
Vanadium (diss.filt)	<0.24 µg/l	TM152		0.919 #	1 #	0.531 #	0.823 #		
Nitrite as NO2	<0.05 mg/l	TM184		<0.05 § #	0.061 § #	<0.05 § #	<0.05 § #		
Phosphate (ortho) as PO4	<0.05 mg/l	TM184		<0.05 #	<0.05 #	<0.05 #	<0.05 #		
Nitrate as NO3	<0.3 mg/l	TM184		0.653 § #	0.373 § #	1.97 § #	0.718 § #		
pH	<1 pH Units	TM256		7.96 #	8.17 #	7.99 #	7.75 #		

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C7	DAWN C8	DAWN C9	DAWN C10	DAWN C11	DAWN C12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			SDG Ref	120328-24	120328-24	120328-24	120328-24	120328-24	120328-24
			Lab Sample No.(s)	5371430	5371431	5371434	5371435	5371436	5371439
			AGS Reference						
Phenol	<100 ug/kg	TM157		129	124	135	182	401	290
Pentachlorophenol	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 ug/kg	TM157		3240	3010	3270	4260	8780	19100
bis(2-Chloroethoxy)methane	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 ug/kg	TM157		<100	<100	<100	<100	106	<100
4-Chlorophenylphenylether	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chlorophenol	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 ug/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C7	DAWN C8	DAWN C9	DAWN C10	DAWN C11	DAWN C12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			SDG Ref	120328-24	120328-24	120328-24	120328-24	120328-24	120328-24
			Lab Sample No.(s)	5371430	5371431	5371434	5371435	5371436	5371439
			AGS Reference						
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	151	<100	115	171	140
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	187	<100	<100	167	157
Benzo(b)fluoranthene	<100 µg/kg	TM157		151	341	<100	168	236	216
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	178	<100	<100	119	115
Benzo(a)pyrene	<100 µg/kg	TM157		<100	231	<100	<100	149	153
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	175	<100	<100	138	123
Chrysene	<100 µg/kg	TM157		181	343	<100	179	328	312
Fluoranthene	<100 µg/kg	TM157		222	411	<100	141	299	258
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	144	<100	<100	105	<100
Phenanthrene	<100 µg/kg	TM157		361	450	132	254	397	336
Pyrene	<100 µg/kg	TM157		203	383	<100	171	366	342
Naphthalene	<100 µg/kg	TM157		127	185	<100	111	192	141
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

SVOC MS (W) - Aqueous

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	36" SEWER	NSR IN	NSR OUT	W3		
			Depth (m)	.	.	.	.		
			Sample Type	Saline A	Saline A	Saline A	Saline A		
			Date Sampled	27/03/2012	27/03/2012	27/03/2012	27/03/2012		
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012		
			SDG Ref	120328-24	120328-24	120328-24	120328-24		
			Lab Sample No.(s)	5371429	5371427	5371428	5371838		
			AGS Reference						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2-Chlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2-Methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
2-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
3-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
4-Chloroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
4-Methylphenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
4-Nitrophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
4-Nitroaniline (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Azobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Acenaphthylene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Acenaphthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<2	<2	<2	<2		
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	36" SEWER	NSR IN	NSR OUT	W3		
			Depth (m)	.	.	.	.		
			Sample Type	Saline A	Saline A	Saline A	Saline A		
			Date Sampled	27/03/2012	27/03/2012	27/03/2012	27/03/2012		
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012		
			SDG Ref	120328-24	120328-24	120328-24	120328-24		
			Lab Sample No.(s)	5371429	5371427	5371428	5371838		
			AGS Reference						
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Carbazole (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Chrysene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Dibenzofuran (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Diethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Dimethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<5	<5	<5	<5		
Fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Fluorene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Hexachlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Pentachlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Phenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Hexachloroethane (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Nitrobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Naphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Isophorone (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Phenanthrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		
Pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1		

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C7	DAWN C8	DAWN C9	DAWN C10	DAWN C11	DAWN C12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			SDG Ref	120328-24	120328-24	120328-24	120328-24	120328-24	120328-24
			Lab Sample No.(s)	5371430	5371431	5371434	5371435	5371436	5371439
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		1	2	8	3	4	3
GRO >C5-C12	<44 µg/kg	TM089		962	297	1530	290	66.2	57
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 #	<10 #	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		2.13 #	2.09 #	3.21 M	2.07 M	2.1 M	2.07 M
Ethylbenzene	<3 µg/kg	TM089		<3 #	<3 #	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 #	<6 #	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 #	<3 #	8.57 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	11.8	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		34	17.8	51.4	20.7	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089		147	36.6	192	25.8	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089		402	124	673	125	18.9	16.6
Aliphatics >C12-C16	<100 µg/kg	TM173		22700	13700	22500	15100	13800	11600
Aliphatics >C16-C21	<100 µg/kg	TM173		41900	26000	54800	27300	42900	30300
Aliphatics >C21-C35	<100 µg/kg	TM173		148000	105000	332000	152000	178000	117000
Aliphatics >C35-C44	<100 µg/kg	TM173		48500	31700	100000	46500	62900	42600
Total Aliphatics >C12-C44	<100 µg/kg	TM173		261000	177000	509000	241000	297000	201000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		97.9	26.1	141	19.6	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089		268	82.6	449	83.7	12.6	11.4
Aromatics >EC12-EC16	<100 µg/kg	TM173		8270	6860	9910	7330	8230	7950
Aromatics >EC16-EC21	<100 µg/kg	TM173		21200	13900	31900	15900	26000	18900
Aromatics >EC21-EC35	<100 µg/kg	TM173		91100	67300	205000	94100	141000	116000
Aromatics >EC35-EC44	<100 µg/kg	TM173		35300	25400	74100	34500	57100	43900
Aromatics >EC40-EC44	<100 µg/kg	TM173		14000	9670	28600	13500	22900	18100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		156000	113000	321000	152000	232000	187000
Total Aliphatics >C5-35	<100 µg/kg	TM173		213000	145000	410000	195000	234000	159000
Total Aromatics >C5-35	<100 µg/kg	TM173		121000	88100	247000	117000	175000	143000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		335000	233000	657000	312000	409000	301000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		418000	291000	832000	393000	529000	388000

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

TPH CWG (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	36" SEWER	NSR IN	NSR OUT	W3		
			Depth (m)	.	.	.	.		
			Sample Type	Saline A	Saline A	Saline A	Saline A		
			Date Sampled	27/03/2012	27/03/2012	27/03/2012	27/03/2012		
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012		
			SDG Ref	120328-24	120328-24	120328-24	120328-24		
			Lab Sample No.(s)	5371429	5371427	5371428	5371838		
			AGS Reference						
GRO Surrogate % recovery**	%	TM245		96	93	93	92		
GRO >C5-C12	<50 µg/l	TM245		<50 #	<50 #	<50 #	<50 #		
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245		<3 #	<3 #	<3 #	<3 #		
Benzene	<7 µg/l	TM245		<7 #	<7 #	<7 #	<7 #		
Toluene	<4 µg/l	TM245		<4 #	<4 #	<4 #	<4 #		
Ethylbenzene	<5 µg/l	TM245		<5 #	<5 #	<5 #	<5 #		
m,p-Xylene	<8 µg/l	TM245		<8 #	<8 #	<8 #	<8 #		
o-Xylene	<3 µg/l	TM245		<3 #	<3 #	<3 #	<3 #		
Sum of detected Xylenes	<11 µg/l	TM245		<11	<11	<11	<11		
Sum of detected BTEX	<28 µg/l	TM245		<28	<28	<28	<28		
Aliphatics >C5-C6	<10 µg/l	TM245		<10	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/l	TM245		<10	<10	<10	<10		
Aliphatics >C8-C10	<10 µg/l	TM245		<10	<10	<10	<10		
Aliphatics >C10-C12	<10 µg/l	TM245		<10	<10	<10	<10		
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174		<10	107	<10	50		
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174		<10	208	<10	80		
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174		<10	207	<10	22		
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174		<10	522	<10	152		
Aromatics >EC5-EC7	<10 µg/l	TM245		<10	<10	<10	<10		
Aromatics >EC7-EC8	<10 µg/l	TM245		<10	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/l	TM245		<10	<10	<10	<10		
Aromatics >EC10-EC12	<10 µg/l	TM245		<10	<10	<10	<10		
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174		<10	49	<10	<10		
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174		<10	90	<10	12		
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174		<10	50	<10	<10		
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174		<10	189	<10	12		
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174		<10	713	<10	170		

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C7	DAWN C8	DAWN C9	DAWN C10	DAWN C11	DAWN C12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			SDG Ref	120328-24	120328-24	120328-24	120328-24	120328-24	120328-24
			Lab Sample No.(s)	5371430	5371431	5371434	5371435	5371436	5371439
			AGS Reference						
Dibromofluoromethane**	%	TM116		103	98	111	108	110	106
Toluene-d8**	%	TM116		90.5	87.1	98.1	97.7	98.4	95.3
4-Bromofluorobenzene**	%	TM116		145	152	120	129	130	135
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 #	<80 #	<80 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 #	<260 #	<260 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 #	<280 #	<280 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 #	<120 #	<120 M	<120 M	<120 M	<120 M
1.1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 #	<140 #	<140 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 #	<220 #	<220 M	<220 M	<220 M	<220 M
trans-1-2-Dichloroethene	<11 µg/kg	TM116		<220 #	<220 #	<220 M	<220 M	<220 M	<220 M
1.1-Dichloroethane	<8 µg/kg	TM116		<160 #	<160 #	<160 M	<160 M	<160 M	<160 M
cis-1-2-Dichloroethene	<5 µg/kg	TM116		<100 #	<100 #	<100 M	<100 M	<100 M	<100 M
2.2-Dichloropropane	<12 µg/kg	TM116		<240 #	<240 #	<240 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 #	<280 #	<280 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 #	<160 #	<160 M	<160 M	<160 M	<160 M
1.1.1-Trichloroethane	<7 µg/kg	TM116		<140 #	<140 #	<140 M	<140 M	<140 M	<140 M
1.1-Dichloropropene	<11 µg/kg	TM116		<220 #	<220 #	<220 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 #	<280 #	<280 M	<280 M	<280 M	<280 M
1.2-Dichloroethane	<5 µg/kg	TM116		<100 #	<100 #	<100 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 #	<180 #	<180 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 #	<180 #	<180 M	<180 M	<180 M	<180 M
1.2-Dichloropropane	<12 µg/kg	TM116		<240 #	<240 #	<240 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 #	<180 #	<180 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 #	<140 #	<140 M	<140 M	<140 M	<140 M
cis-1-3-Dichloropropene	<14 µg/kg	TM116		<280 #	<280 #	<280 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		133 #	147 #	<100 M	<100 M	<100 M	<100 M
trans-1-3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<280	<280	<280
1.1.2-Trichloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
1.3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 #	<100 #	<100 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 #	<260 #	<260 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	DAWN C7	DAWN C8	DAWN C9	DAWN C10	DAWN C11	DAWN C12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012	28/03/2012
			SDG Ref	120328-24	120328-24	120328-24	120328-24	120328-24	120328-24
			Lab Sample No.(s)	5371430	5371431	5371434	5371435	5371436	5371439
			AGS Reference						
1.2-Dibromoethane	<12 µg/kg	TM116		<240 #	<240 #	<240 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 #	<100 #	<100 M	<100 M	<100 M	<100 M
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 #	<80 #	<80 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 #	<100 #	<100 M	<100 M	<100 M	<100 M
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
1.2.3-Trichloropropane	<17 µg/kg	TM116		<340 #	<340 #	<340 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 #	<220 #	<220 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 #	<180 #	<180 M	<180 M	<180 M	<180 M
1.3.5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 #	<240 #	<240 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #	<240 #	<240 #
1.2.4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #	<180 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 #	<220 #	<220 M	<220 M	<220 M	<220 M
1.3-Dichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 M	<120 M	<120 M	<120 M
1.4-Dichlorobenzene	<5 µg/kg	TM116		<100 #	<100 #	<100 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 #	<200 #	<200 M	<200 M	<200 M	<200 M
1.2-Dichlorobenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 M	<240 M	<240 M	<240 M
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 #	<280 #	<280 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300	<300	<300
1.2.4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 #	<260 #	<260 M	<260 M	<260 M	<260 M
1.2.3-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	36" SEWER	NSR IN	NSR OUT	W3		
			Depth (m)	.	.	.	.		
			Sample Type	Saline A	Saline A	Saline A	Saline A		
			Date Sampled	27/03/2012	27/03/2012	27/03/2012	27/03/2012		
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012		
			SDG Ref	120328-24	120328-24	120328-24	120328-24		
			Lab Sample No.(s)	5371429	5371427	5371428	5371838		
			AGS Reference						
Dibromofluoromethane**	%	TM208		124	121	119	124		
Toluene-d8**	%	TM208		100	99.7	98.7	98.8		
4-Bromofluorobenzene**	%	TM208		96.1	95.5	93.8	94.8		
Dichlorodifluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Chloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Vinyl chloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Bromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Chloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Trichlorofluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,1-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Carbon disulphide	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Dichloromethane	<3 µg/l	TM208		<3 #	<3 #	<3 #	<3 #		
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
trans-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,1-Dichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
cis-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	2.98 #		
2,2-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Bromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Chloroform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,1,1-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,1-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Carbontetrachloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,2-Dichloroethane	<1 µg/l	TM208		<1	<1	<1	<1		
Benzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Trichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,2-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Dibromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Bromodichloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
cis-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Toluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
trans-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,1,2-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,3-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Tetrachloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Dibromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
§	Deviating sample.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed

Component	LOD/Units	Method	Customer Sample R	36" SEWER	NSR IN	NSR OUT	W3		
			Depth (m)	.	.	.	.		
			Sample Type	Saline A	Saline A	Saline A	Saline A		
			Date Sampled	27/03/2012	27/03/2012	27/03/2012	27/03/2012		
			Date Received	28/03/2012	28/03/2012	28/03/2012	28/03/2012		
			SDG Ref	120328-24	120328-24	120328-24	120328-24		
			Lab Sample No.(s)	5371429	5371427	5371428	5371838		
			AGS Reference						
1,2-Dibromoethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Chlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Styrene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Bromoform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Isopropylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1	<1		
1,2,3-Trichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Bromobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Propylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
2-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,3,5-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
4-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
tert-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,2,4-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
sec-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
4-iso-Propyltoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,3-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,4-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
n-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,2-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1		
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208		<1	<1	<1	<1		
1,2,4-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Hexachlorobutadiene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
Naphthalene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,2,3-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #		
1,3,5-Trichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1		

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Notification of Deviating Samples

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5371445	NSR IN		SALINE_A	Anions by Kone (w)	Nitrate as NO3	Sample holding time exceeded
5371445	NSR IN		SALINE_A	Anions by Kone (w)	Nitrite as NO2	Sample holding time exceeded
5371477	NSR OUT		SALINE_A	Anions by Kone (w)	Nitrate as NO3	Sample holding time exceeded
5371477	NSR OUT		SALINE_A	Anions by Kone (w)	Nitrite as NO2	Sample holding time exceeded
5371487	36" SEWER		SALINE_A	Anions by Kone (w)	Nitrate as NO3	Sample holding time exceeded
5371487	36" SEWER		SALINE_A	Anions by Kone (w)	Nitrite as NO2	Sample holding time exceeded
5371843	W3		SALINE_A	Anions by Kone (w)	Nitrate as NO3	Sample holding time exceeded
5371843	W3		SALINE_A	Anions by Kone (w)	Nitrite as NO2	Sample holding time exceeded

Note : Test results may be compromised

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM245	By GC-FID	Determination of GRO by Headspace in waters		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Test Completion Dates

Lab Sample No(s)	5371429	5371430	5371431	5371434	5371435	5371436	5371439	5371427	5371428	5371838
Customer Sample Ref.	36" SEWER	DAWN C7	DAWN C8	DAWN C9	DAWN C10	DAWN C11	DAWN C12	NSR IN	NSR OUT	W3
AGS Ref.										
Depth										
Type	SALINE_A	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SALINE_A	SALINE_A	SALINE_A
Ammoniacal Nitrogen	03-Apr-2012							03-Apr-2012	03-Apr-2012	03-Apr-2012
Anions by Kone (w)	31-Mar-2012							03-Apr-2012	31-Mar-2012	31-Mar-2012
BOD True Total	03-Apr-2012							03-Apr-2012	03-Apr-2012	03-Apr-2012
COD Unfiltered	31-Mar-2012							31-Mar-2012	31-Mar-2012	31-Mar-2012
Conductivity (at 20 deg.C)	30-Mar-2012							30-Mar-2012	30-Mar-2012	30-Mar-2012
Dissolved Metals by ICP-MS	30-Mar-2012							30-Mar-2012	30-Mar-2012	30-Mar-2012
EPH CWG (Aliphatic) Aqueous GC (W)	02-Apr-2012							02-Apr-2012	02-Apr-2012	02-Apr-2012
EPH CWG (Aliphatic) GC (S)		02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012			
EPH CWG (Aromatic) Aqueous GC (W)	02-Apr-2012							02-Apr-2012	02-Apr-2012	02-Apr-2012
EPH CWG (Aromatic) GC (S)		02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012			
GRO by GC-FID (S)		02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012			
GRO by GC-FID (W)	30-Mar-2012							30-Mar-2012	30-Mar-2012	30-Mar-2012
Metals by iCap-OES (Soil)		02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012			
pH		31-Mar-2012	31-Mar-2012	31-Mar-2012	31-Mar-2012	31-Mar-2012	02-Apr-2012			
pH Value	30-Mar-2012							30-Mar-2012	30-Mar-2012	30-Mar-2012
Sample description		29-Mar-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012			
Semi Volatile Organic Compounds		30-Mar-2012	30-Mar-2012	30-Mar-2012	12-Apr-2012	12-Apr-2012	12-Apr-2012			
Suspended Solids	30-Mar-2012							02-Apr-2012	03-Apr-2012	02-Apr-2012
SVOC MS (W) - Aqueous	02-Apr-2012							02-Apr-2012	02-Apr-2012	02-Apr-2012
TPH CWG (W)	02-Apr-2012							02-Apr-2012	02-Apr-2012	02-Apr-2012
TPH CWG GC (S)		02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012			
VOC MS (S)		02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012			
VOC MS (W)	30-Mar-2012							31-Mar-2012	30-Mar-2012	30-Mar-2012

SDG:	120328-24	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0232
Job:	H_ATKINS_LDC-105	**Customer:**	Atkins Global Ltd	**Report Number:**	177451
Client Reference:	Weekly Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	176553

Appendix

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D&C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DCM	SOXTHERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
ELEMENTAL SULPHUR	D&C	DCM	SOXTHERM	HPLC
PHENOLS BY GCMS	WET	DCM	SOXTHERM	GC-MS
HERBICIDES	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
PESTICIDES	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (MIN OIL)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (CLEANED UP)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG BY GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB AROCLOR 1254 / PCB CON	D&C	HEXANE:ACETONE	END OVER END	GC-MS
POLYAROMATIC HYDROCARBONS (MS)	WET	HEXANE:ACETONE	MICROWAVE TM218.	GC-MS
>C6-C40	WET	HEXANE:ACETONE	SHAKER	GC-FID
POLYAROMATIC HYDROCARBONS RAPID GC	WET	HEXANE:ACETONE	SHAKER	GC-FID
SEMI VOLATILE ORGANIC COMPOUNDS	WET	DCM:ACETONE	SONICATE	GC-MS

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB AROCLOR 1254	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
SVOC	DCM	LIQUID/LIQUID SHAKE	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PESTOC PROPP	DCM	LIQUID/LIQUID SHAKE	GC MS
TRIAZINE HERBS	DCM	LIQUID/LIQUID SHAKE	GC MS
PHENOLS MS	ACETONE	SOLID PHASE EXTRACTION	GC MS
TPH by INFRARED (IR)	TCE	STIRRED EXTRACTION (STIR-BAR)	IR
MINERAL OIL by IR	TCE	STIRRED EXTRACTION (STIR-BAR)	IR
GLYCOLS	NONE	DIRECT INJECTION	GC FID

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials or those identified as potentially asbestos containing during sample description which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -
Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

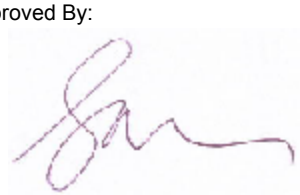
Date:	01 February 2012
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	120120-48
Your Reference:	
Location:	Coed Darcy Urban Village
Report No:	169194

We received 18 samples on Friday January 20, 2012 and 18 of these samples were scheduled for analysis which was completed on Wednesday February 01, 2012. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	120120-48	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0210
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	169194
Client Reference:		**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5045591	DVCS 1			19/01/2012
5045593	DVCS 2			19/01/2012
5045598	DVCS 3			19/01/2012
5045600	DVCS 4			19/01/2012
5045601	DVCS 5			19/01/2012
5045602	DVCS 6			19/01/2012
5045603	DVCS 7			19/01/2012
5045605	QIC 1			19/01/2012
5045606	QIC 2			19/01/2012
5045585	SP43 1			19/01/2012
5045586	SP43 2			19/01/2012
5045587	SP46 1			19/01/2012
5045588	SP46 2			19/01/2012
5045589	SP47 1			19/01/2012
5045590	SP47 2			19/01/2012
5045607	TIC 1			19/01/2012
5045608	TIC 2			19/01/2012
5045609	TIC 3			19/01/2012

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	120120-48	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0210
Job:	H_ATKINS_LDC-35	**Customer:**	Atkins Global Ltd	**Report Number:**	169194
Client Reference:		**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		5045591	DVCS 1			250g Amber Jar (AL
		5045605	QIC 1			400g Tub (ALE214)
		5045593	DVCS 2			60g VOC (ALE215)
		5045598	DVCS 3			250g Amber Jar (AL
		5045600	DVCS 4			400g Tub (ALE214)
		5045601	DVCS 5			60g VOC (ALE215)
		5045602	DVCS 6			250g Amber Jar (AL
		5045603	DVCS 7			400g Tub (ALE214)
		5045585	SP43 1			60g VOC (ALE215)
		5045586	SP43 2			250g Amber Jar (AL
		5045587	SP46 1			400g Tub (ALE214)
		5045588	SP46 2			60g VOC (ALE215)
		5045589	SP47 1			250g Amber Jar (AL
		5045590	SP47 2			400g Tub (ALE214)
						60g VOC (ALE215)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
GRO by GC-FID (S)	All	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Cadmium	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Chromium	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Copper	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Lead	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Mercury	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Nickel	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Selenium	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Vanadium	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
	Zinc	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			
PAH by GCMS	All	NDPs: 0 Tests: 15	X X X X X X X X X X X X X X X X X			
pH	All	NDPs: 0 Tests: 18	X X X X X X X X X X X X X X X X X X			